	Case 5:18-cr-00258-EJD Documen	t 1655 Filed 11/19/22 Page 1 of 82	
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14	NORTHERN DISTRICT OF CALIFORNIA		
15	SAN JOSE DIVISION		
16			
17	UNITED STATES OF AMERICA,) Case No. CR-18-00258-EJD)	
18	Plaintiff,	MS. HOLMES' SENTENCING MEMORANDUMAND MOTION FOR DOWNWARD	
19) DEPARTURE	
20	ELIZABETH HOLMES and RAMESH "SUNNY" BALWANI,) Date: November 18, 2022) Time: 10:00 AM	
21 22	Defendants.) CTRM: 4, 5th Floor	
22)) Hon. Edward J. Davila	
23)) REDACTED PUBLIC VERSION	
25) UPDATED TO REMOVE CERTAIN REDACTIONS	
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	MS. HOLMES' SENTENCING MEMORANDU CR-18-00258 EJD	JIVI	

Case 5:18-cr-00258-EJD Document 1655 Filed 11/19/22 Page 2 of 82 **CONTENTS** 1 2 I. PRELIMINARY STATEMENT1 3 II. 4 A. 5 1. 6 2. 7 3. 8 4. 9 5. 10 6. 11 B. 12 1. 13 2. 14 3. 15 16 4. 17 5. 18 III. CALCULATION OF THE SENTENCING GUIDELINES RANGE AND 19 A. 20 1. 21 2. 22 23 3. The Entirety of Each Investment Is Not An Appropriate Measure of Loss and the Government Has Not Shown a Reasonable Estimate by 24 25 4. 26 5. If the Court Accepts the PSR's Calculation of Loss, A Downward Departure is Warranted Under Section 2B1.1, Application Note 21(C)......40 27 28 MS. HOLMES' SENTENCING MEMORANDUM CR-18-00258 EJD i

Case 5:18-cr-00258-EJD Document 1655 Filed 11/19/22 Page 3 of 82

B. Ms. Holmes Objects to the Calculation of the Number of Victims.			
1. Ms. Holmes Was Not a Leader of "Criminal Activity."		B.	Ms. Holmes Objects to the Calculation of the Number of Victims40
 The Adjustment Does Not Apply Because Ms. Holmes Was Co-Equal or Less Responsible Than Her Co-Defendant, the Other "Participant."		C.	Ms. Holmes Should Not Receive a 4-Level Increase for Her Role41
or Less Responsible Than Her Co-Defendant, the Other "Participant."			1. Ms. Holmes Was Not a Leader of "Criminal Activity."
D. Ms. Holmes Should Receive Credit for Acceptance of Responsibility Pursuant to U.S.S.G. § 3E1.1(a)			5 11 5 1
to U.S.S.G. § 3E1.1(a)			3. The "Otherwise Extensive" Provision Does Not Apply43
 A. The Nature and Circumstances of the Offense Strongly Support Leniency		D.	· · ·
1. The Offense Conduct Occurred Within a Unique World of Investments in Start-Up Companies	IV.	18 U.S	S.C. § 3553(a) SUPPORTS SUBSTANTIAL LENIENCY FOR MS. HOLMES47
in Start-Up Companies		A.	The Nature and Circumstances of the Offense Strongly Support Leniency
Services to Real Customers in Furtherance of Its Mission to Improve 52 Access to Healthcare 52 3. The Company Retained Substantial Value Even After the Alleged Fraud Was Revealed 59 4. The Circumstances Show Ms. Holmes To Be a Founder and CEO Deeply Committed to the Company's Mission, Rather Than Her Own Personal Gain 59 5. Because of Their Extreme Focus on Loss, the Guidelines Are Unhelpful in Fashioning a Fair, Just, and Reasonable Sentence. 60 B. Ms. Holmes' Personal History and Characteristics Strongly Support Leniency. 62 C. Incarceration Is Not Necessary to Afford Adequate Deterrence or Protect the Public. Public. 64 1. Incarceration Is Not Necessary for Specific Deterrence. 64 D. Just Punishment and Respect for the Law Are Not Served by a Lengthy 68 E. Section 3553(a)(6) Supports a Downward Variance from the Guidelines. 69 F. Section 3553(a)(7) Does Not Counsel In Favor of Incarceration. 71 MS. HOLMES' SENTENCING MEMORANDUM The Law Are Not Served Section. 71			1
Fraud Was Revealed. 59 4. The Circumstances Show Ms. Holmes To Be a Founder and CEO Deeply Committed to the Company's Mission, Rather Than Her Own Personal Gain. 59 5. Because of Their Extreme Focus on Loss, the Guidelines Are Unhelpful in Fashioning a Fair, Just, and Reasonable Sentence. 60 B. Ms. Holmes' Personal History and Characteristics Strongly Support Leniency. 62 C. Incarceration Is Not Necessary to Afford Adequate Deterrence or Protect the Public. 64 1. Incarceration Is Not Necessary for Specific Deterrence. 64 2. Incarceration Is Not Necessary for General Deterrence. 66 D. Just Punishment and Respect for the Law Are Not Served by a Lengthy Incarceration. 68 E. Section 3553(a)(6) Supports a Downward Variance from the Guidelines. 69 F. Section 3553(a)(7) Does Not Counsel In Favor of Incarceration. 71 MS. HOLMES' SENTENCING MEMORANDUM CR-18-00258 EJD "." "."			Services to Real Customers in Furtherance of Its Mission to Improve
Deeply Committed to the Company's Mission, Rather Than Her Own Series 200 Personal Gain			
Unhelpful in Fashioning a Fair, Just, and Reasonable Sentence			Deeply Committed to the Company's Mission, Rather Than Her Own
 C. Incarceration Is Not Necessary to Afford Adequate Deterrence or Protect the Public			·
Public.		В.	Ms. Holmes' Personal History and Characteristics Strongly Support Leniency62
 2. Incarceration Is Not Necessary for General Deterrence		C.	
 D. Just Punishment and Respect for the Law Are Not Served by a Lengthy Incarceration			1. Incarceration Is Not Necessary for Specific Deterrence
Incarceration			2. Incarceration Is Not Necessary for General Deterrence
F. Section 3553(a)(7) Does Not Counsel In Favor of Incarceration		D.	
MS. HOLMES' SENTENCING MEMORANDUM CR-18-00258 EJD		E.	Section 3553(a)(6) Supports a Downward Variance from the Guidelines69
11		IOLME	S' SENTENCING MEMORANDUM EJD

	Case 5:18-cr-00258-EJD Document 1655 Filed 11/19/22 Page 4 of 82
1	 G. Ms. Holmes' Capacity to Do Good Supports a Sentence That, In Part, Orders Ms. Holmes to Engage in Significant Community Service
2	
3	CONCLUSION74
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	MS. HOLMES' SENTENCING MEMORANDUM CR-18-00258 EJD iii

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Page(s)

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0	
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6	Koon v. United States, 518 U.S. 81, 113 (1996)
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8	United States v. Atilla, 1:15-cr-00867-RMB (S.D.N.Y.)70
9	United States v. Avila, 95 F.3d 887 (9th Cir. 1996)41
10	United States v. Block, 16-cr-595 (S.D.N.Y. Dec. 4, 2017)
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28	MS. HOLMES' SENTENCING MEMORANDUM
	CR-18-00258 EJD

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3	United States v. Parris, 573 F. Supp. 2d 744 (E.D.N.Y. 2008)
4	<i>United States v. Prosperi</i> , 686 F.3d 32 (1st Cir. 2012)60
5	United States v. Rowan, No. 1:16-cr-10343 (D. Mass.)
6	<i>United States v. Shor</i> , 1:18-cr-00328 (S.D.N.Y.)
7	United States v. Showalter, 569 F.3d 1150 (9th Cir. 2009)40
8	<i>United States v. Stein</i> , 846 F.3d 1135 (11th Cir. 2017)
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10	<i>United States v. Tuzman</i> , No. 1:15-cr-00536 (S.D.N.Y.)
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15	18 U.S.C. § 3553(a) passim
16	Cal. Civ. Code § 3426.1(d)(2)
17	U.S.S.G. § 2B1.1
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Case 5:18-cr-00258-EJD Document 1655 Filed 11/19/22 Page 7 of 82

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28	MS. HOLMES' SENTENCING MEMORANDUM CR-18-00258 EJD vi

MEMORANDUM OF POINTS AND AUTHORITIES

I. PRELIMINARY STATEMENT

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3 Elizabeth Holmes stands before the Court having been convicted of conspiracy to commit wire 4 fraud and three individual counts of wire fraud with respect to certain sophisticated investors in her 5 company, Theranos. In sentencing her, the Court's task is a heavy one. Ms. Holmes was 19 when she 6 founded her company, her first business experience; in 2010, the beginning of the charged period, she 7 was 25 and turned 26; and when her company shut down in 2018 she was just 34 years old. She 8 founded and built Theranos for indisputably good reasons. She worked tirelessly along with hundreds of 9 brilliant and committed employees to improve access to affordable health information. The company 10 achieved incredibly valuable inventions for which the United States government is still issuing patents 11 as recently as July of *this year*. Ex. B.¹ She suffered substantial trauma throughout the time period of 12 the offense. When criticisms arose, she committed fully to identifying, acknowledging, and fixing 13 errors. She never cashed out, and she went down with the ship when the company failed. And 14 regardless of the sentence the Court imposes, for the rest of her life, she and her family will be punished. 15 As her partner knows all too well, "[t]here is no avoiding the scorn that accompanies Elizabeth Holmes." 16 Ex. A at 7-8 (B. Evans Ltr. at 7-8).

17 Among the countless people in our society who do not know Elizabeth Holmes yet think they 18 know about her case from the unusually intense media coverage of it, Ms. Holmes has become a 19 caricature to be mocked and vilified. The Court has the opportunity (and obligation) here to look 20 beyond that caricature, as it has throughout this case, and examine Ms. Holmes the human being. More 21 than 130 individuals who actually know Ms. Holmes have written to the Court to help in that process. 22 Among them are friends, family, Theranos investors, Theranos Board members, and former employees 23 who served in a variety of roles at Theranos, all of whom submit these letters despite the risk that they 24 will be criticized for their support. These are people who know Ms. Holmes and her character, remorse, 25 and capacity to do good.

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¹ All Exhibits cited herein as "Ex." are exhibits to the Declaration of Katherine Trefz. Admitted trial exhibits are cited as "TX."

Case 5:18-cr-00258-EJD Document 1655 Filed 11/19/22 Page 9 of 82

The real Elizabeth Holmes is "a compassionate friend who is there for the people around her—to support, comfort, cheer on, problem solve, and connect." Ex. A at 62 (G. Bianchini Ltr. at 1).

3 The real Elizabeth Holmes is the friend who writes "letters that I still keep and read again anytime I need to be reminded of my purpose and inner strength." Ex. A at 181 (J. Lamping Ltr. at 2). 4

5 The real Elizabeth Holmes is a devoted mother who "turns . . . ordinary moments into magical experiences of unbounded love and wonder" for her son. Ex. A at 6 (B. Evans Ltr. at 6). 6

7 The real Elizabeth Holmes is "[e]xtremely genuine, giving, and selfless," "unlike anyone else 8 I've met in Silicon Valley." Ex. A at 271 (Y. Yu Ltr. at 1).

9 The real Elizabeth Holmes was an "approachable, attentive, and supportive" "employee focused CEO[]." Ex. A at 78 (T. Brumett Ltr.). 10

The real Elizabeth Holmes faced the challenges at Theranos from 2016 to 2018 with "steadfast ethical principles, complete dedication to what was best for Theranos, and admirable courage." Ex. A at 74 (F. Bonanni Ltr. at 3).

The real Elizabeth Holmes is "driven by a single and simple purpose; she wants to make the 14 15 world a better place than it would have been without her." Ex. A at 96 (T. Cooper Ltr. at 1).

16 The real Elizabeth Holmes "has within her a sincere desire to help others, to be of meaningful service, and possesses the capacity to redeem herself." Ex. A at 77 (C. Booker Ltr. at 2). 17

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Section 3553(a) requires the Court to fashion a sentence "sufficient, but not greater than necessary," to serve the purposes of sentencing. If a period of confinement is necessary, the defense 20 21 suggests that a term of eighteen months or less, with a subsequent supervised release period that requires 22 community service, will amply meet that charge. But the defense believes that home confinement with a 23 requirement that Ms. Holmes continue her current service work is sufficient. We acknowledge that this may seem a tall order given the public perception of this case—especially when Ms. Holmes is viewed 24 25 as the caricature, not the person; when the company is viewed as a house of cards, not as the ambitious, 26 inventive, and indisputably valuable enterprise it was; and when the media vitriol for Ms. Holmes is 27 taken into account. But the Court's difficult task is to look beyond those surface-level views when it

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fashions its sentence. In doing so, we ask that the Court consider, as it must, the real person, the real 2 company and the complex circumstances surrounding the offense conduct, and the important principle 3 that "no defendant should be made a martyr to public passion." United States v. Gupta, 904 F. Supp. 2d 349, 355 (S.D.N.Y. 2012) (Rakoff, J.). As discussed in more detail in the pages that follow, this is a unique case and this defendant is a singular human with much to give.

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II.

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MS. HOLMES' PERSONAL HISTORY AND CHARACTERISTICS

7 As the more than 130 letters submitted on her behalf attest, Ms. Holmes is a warm, thoughtful 8 friend; a loving and dedicated mother and partner; a good listener; a mentor to young women and 9 entrepreneurs; a boss who cared about the company's employees; a chief executive dedicated to her 10 company's mission; an intelligent and inventive problem solver; and a humble, hardworking, and 11 compassionate woman who deeply wants to give what she can to the world. Her positive impact on her 12 friends, family, and former employees and advisors is evident in this outpouring of support. Despite her 13 current circumstances, she is an "ardently resilient optimist"—a person whose "devotion to constructive 14 impact remains natural, profound, and inspirational" even as she faces the prospect of a profound loss of 15 liberty. Ex. A at 95 (A. & S. Kiessig Ltr.).

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A.

Ms. Holmes' Personal History

1. Childhood

Ms. Holmes began developing her good qualities through a childhood for which she has always been grateful. Born in Washington, D.C. in 1984, Ms. Holmes was raised primarily in Washington, D.C. and Houston, Texas with her brother Christian, two years her junior. Her parents were both public servants. Her mother, Noel, worked on Capitol Hill for Members of Congress and Committees in the House of Representatives. Ex. A at 31 (N. Holmes Ltr. at 2). Her father, Chris, spent years working at the Environmental Protection Agency, the United States Agency for International Development (USAID), and the State Department, focused on issues related to disaster relief. Chris was Ms. Holmes' personal hero. PSR ¶ 124. He would return from his work abroad with stories about responding to disease, genocide, war, and natural disasters and imparted the view that the most important thing he could do with his life was to help others. Ex. A at 16 (C. Holmes Ltr. at 4). From her father, Ms.

MS. HOLMES' SENTENCING MEMORANDUM CR-18-00258 EJD

Case 5:18-cr-00258-EJD Document 1655 Filed 11/19/22 Page 11 of 82

Holmes learned the lessons of stoicism and sacrifice in service of the greater good, and she took them to
 heart early in her childhood as a foundational trait. Her parents "instilled in her that life should not be
 wasted." PSR ¶ 124.

Ms. Holmes was a studious and hard-working child. She had, as her mother describes, a "gritty 4 5 determination." Ex. A at 30 (N. Holmes Ltr. at 1); see also PSR ¶ 124. She was naturally curious with "a deep hunger for knowledge," Ex. A at 20 (C. Holmes Ltr. at 8), which she explored as a young child 6 7 through talking about nature and the world with her parents, *id* at 14 (C. Holmes Ltr. at 2), 32 (N. 8 Holmes Ltr. at 3). As a teenager, she poured that curiosity into schoolwork and extracurriculars, such as 9 spending part of her Saturdays taking Chinese lessons from the time she was a pre-teen. Id. at 20 (C. Holmes Ltr. at 8), 31, 33 (N. Holmes Ltr. at 2, 4), 133 (G. Fan Ltr. at 1). Ms. Holmes' brother Christian 10 describes her focus and work ethic as a teenager: 11

- She was driven and goal-oriented and thrived in whatever she set her mind to, whether it was academics, personal challenges she set for herself, developing a new skill, etc. She had an extraordinary work ethic and has always exceled as a student. She never cut corners It was critical to her to apply herself fully to whatever she took on.... She especially valued the relationships with people she felt she could learn from and be challenged by. Teachers and mentors were just as important as friends, and she actively sought out direction from people with experience who she could learn from.
- 16 Ex. A at 162 (Christian Holmes Ltr. at 1).

17 Beyond academics, Ms. Holmes channeled that determination and work ethic into what she could do to help others. As longtime family friend Mary Crane describes: "I often had the sense that 18 [Elizabeth and Christian] knew 'to whom much is given, much is expected."" Ex. A at 100 (M. Crane 19 Ltr. at 1). Indeed, Ms. Holmes' childhood letters to her parents express a deep gratitude for the life she 20 was given. Ex. A at 32 (N. Holmes Ltr. at 3); Ex. C (letter). In addition to her compassion towards 21 22 individuals, Ms. Holmes looked to what she could do for the world. "Even in high school, her idealism 23 and drive to help people stood out. During sophomore year, Liz led efforts to help victims of the Kosovo War—a world away from Houston." Ex. A at 273 (C. Zygourakis Ltr. at 1); see id. at 193 (C. 24 25 MacCormack Ltr.). As she told her friend in an interview for her high school newspaper, she believed that "[w]e have the potential to reform and to prevent the horrors of this world if we simply learn and 26 act." Id. at 273 (C. Zygourakis Ltr. at 1). She organized similar campaigns for other causes, including 27

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Case 5:18-cr-00258-EJD Document 1655 Filed 11/19/22 Page 12 of 82

Turkey earthquake relief. Ms. Holmes' Chinese tutor describes how, after she "read a story about how
children in the remote areas of China lacked access to education," "[s]he immediately started
contemplating how she could help" and "took action," developing "a plan to work with major software
companies in the United States to provide software to schools in China at a low cost." Ex. A at 133 (G.
Fan Ltr. at 1). "What inspired her was the story, but what made her work so hard . . . was her generous
heart." *Id.* at 134 (G. Fan Ltr. at 2).

Ms. Holmes was also a source of support within her own family. Her father describes how, when Enron collapsed during Ms. Holmes' senior year of high school, he lost his job, savings, and healthcare. "During that time, Elizabeth was not just my daughter; she was my wise friend and helper." Ex. A at 20 (C. Holmes Ltr. at 8).

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2. College

12 Ms. Holmes began attending college at Stanford University in the fall of 2002. Consistent with 13 her longtime interest in science, Ms. Holmes focused on chemical engineering with an eye toward 14 combining several engineering disciplines. She brought to those difficult classes her deep work ethic 15 and sound moral compass. As her college friend Lauren Stat describes, Ms. Holmes insisted that there 16 was no need to rely on study groups who had inherited the answers to problem sets, "those relics of 17 dubious morality. And so with her leadership, we proceeded to learn the right way, the hard way." Ex. 18 A at 246 (L. Stat Ltr. at 1). Ms. Holmes started auditing graduate-level courses and working in the 19 laboratory of Professor Channing Robertson, where she was part of a team developing microfluidic 20 sensors.

Ms. Holmes also enjoyed the social aspects of college life, including the friends she made there.
Her mother describes that in her regular calls "she was full of joy and enthusiasm about her life." Ex. A
at 34 (N. Holmes Ltr. at 5). Her brother Christian recalls how she came out of her academic shell
towards the end of high school and that in the first year at Stanford "she seemed happy and welladjusted to college life." Ex. A at 162 (Christian Holmes Ltr. at 1). Her friends describe her as a caring
person who believed in the genuine goodness of people and loved to talk about ideas. She was "full of
vibrancy, curiosity, kindness, and warmth," "extremely intellectual yet unpretentious and always

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looking to better herself and those around her." Ex. A at 180 (J. Lamping Ltr. at 1). As friend Prerna
 Gupta describes:

We spent countless hours traversing the Stanford hills and discussing the meaning of life. She was raised as a Christian, and I as a Hindu, but we found common ground in our explorations of Buddhism. We shared a belief that we were meant to do good in the world. That the purpose of life was love. That we could achieve anything we set our mind and hearts to, as long as we didn't give up. And that, most of all, we must dedicate our lives to having a positive impact on the world.

7 Ex. A at 154 (P. Gupta Ltr. at 1); *see id.* at 130 (J. Ewing Ltr. at 1) ("While fraternity boys puked on
8 carpets and tried to coerce us into endless games of beer pong, Elizabeth whispered in the corner about
9 things like philosophy, psychology, consciousness, and the meaning of life."); *id.* at 255 (A. Sutro Ltr.).
10 This period was one of the happiest of Ms. Holmes' life. PSR ¶ 128.

The summer following her freshman year at Stanford, Ms. Holmes interned at the Genome Institute in Singapore. Ex. A at 35 (N. Holmes Ltr. at 6). Putting together concepts from various types of research she had conducted, she came up with the idea that would form the basis for her first patent application. When she returned home from the summer abroad, she holed up in her room with her research and filed the provisional patent application with a mind to build something from the invention that would make early detection of disease easier. Ex. A at 35 (N. Holmes Ltr. at 6).

Stanford's autumn quarter began in September 2003. Ms. Holmes had moved into her sorority
house at Kappa Alpha Theta, surrounded by friends. Less than two weeks into the quarter, Ms. Holmes
attended a fraternity party with some of her sorority sisters. While intoxicated and initially unconscious,
she was raped by a friend who was a member of one of the Stanford-affiliated fraternities. PSR ¶ 127; *see also* Ex. A at 180 (J. Lamping Ltr. at 1), 154 (P. Gupta Ltr. at 1).

Following the rape, Ms. Holmes experienced acute self-blame, isolation, and depression, and
struggled with suicidal thoughts. PSR ¶ 128. Her demeanor "instantly changed." Ex. A at 162
(Christian Holmes Ltr. at 1). She moved out of the sorority house to a smaller dorm across campus,
where she lived alone.² As a coping mechanism, Ms. Holmes devoted all of her energy and focus into

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 ² During this time period, Ms. Holmes also felt isolated from her parents because of the extreme self-blame and shame she felt. She felt she had disappointed them because she had been drinking and had been at a party the night she was raped. *See* Ex. D (10/16/2003 "Elizabeth's Formula" written by C. MS. HOLMES' SENTENCING MEMORANDUM CR-18-00258 EJD

Case 5:18-cr-00258-EJD Document 1655 Filed 11/19/22 Page 14 of 82

starting a company based around her invention. PSR ¶ 128. Her brother observes that after the assault, 1 2 she "became more withdrawn, less social, and mono-focused on the next venture." Ex. A at 162 (Christian Holmes Ltr. at 1). "After her rape, she was both broken and resolute, using her anger and hurt 3 as an impetus to make the changes she so strongly believed in." Ex. A at 247 (L. Stat Ltr. at 2). Rather 4 5 than seeking to heal, she came to view the assault as a crucible that would help drive her work as she turned to the higher purpose of helping solve difficult health care challenges through the company she 6 7 was forming. See Holmes 11/29/21 Tr. 7848:21-7849:6; Ex. A at 22 (C. Holmes Ltr. at 10); id. at 197 8 (S. Mantri Ltr.).

9 After the winter quarter of 2004, Ms. Holmes chose to take a leave of absence from Stanford to
10 focus on building the nascent company she was forming around her invention. Holmes 11/29/21 Tr.
11 7848:21-24. That company, originally called RealTime Cures, became Theranos.

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3. CEO of Theranos

13 When Ms. Holmes started the company that became Theranos, she was a teenager who had four 14 quarters of college and some laboratory research experience under her belt but no business or 15 management experience. She learned how to navigate that complex world without the benefit of 16 completing college, studying for a Masters in Business Administration, or obtaining years of industry 17 experience, like most CEOs. She relied instead on her personal determination, advisors, employees, and 18 lessons learned from her own mistakes and successes. She served as CEO from the company's founding 19 until her June 2018 indictment. At the time she was indicted, two and a half years after significant 20 public controversy about Theranos had arisen, Ms. Holmes was just 34 years old, still a relative 21 newcomer to the business world.

Though she lacked business and management experience, Ms. Holmes brought to Theranos the qualities she had developed in her childhood—a deeply held interest in improving lives and doing good;

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<sup>Holmes for E. Holmes) (indicating that no drinking, no associating with bad quality people, and no
laziness would lead to creativity and achievement, which was the formula for happiness); Ex. E at 1, 2
(1/4/2004 Ltr. from C. Holmes to E. Holmes) ("You have taken a critical step by moving into the</sup>

dormitory but there could be tremendous temptation to return to old ways. . . . So, put the past behind

you, begin anew in your new room.").

MS. HOLMES' SENTENCING MEMORANDUM CR-18-00258 EJD

an unmatched work ethic; a creative mind and willingness to learn; and kindness, compassion, and 1 2 gratitude. Ms. Holmes recognized (at least some of) her limits and sought out advice from those who 3 could provide the expertise that she lacked. Sunny Balwani was one of them, and became her most important advisor. See II(A)(4). But there were others as well. A consultant who worked with Ms. 4 5 Holmes in 2004 observes that Ms. Holmes "was very good to acknowledge where she did have expertise but also to respect when she didn't and to defer to those who did." Ex. A at 85 (A. Cavers Ltr. at 1); see 6 7 id. at 53 (A. Ashton Ltr. at 2). As time went on, Ms. Holmes hired experienced scientists and other 8 personnel with appropriate experience. Over the company's life, it had hundreds of employees: dozens of scientists and engineers with Ph.Ds, M.D.s, and Masters degrees; employees who had previously 9 worked at medical device, pharmaceutical, and software companies; manufacturing personnel who 10 worked on machining, injection molding, and assembly; experienced marketing personnel; and in-house 11 lawyers who had worked at major law firms. Theranos also hired outside law firms, including Wilson 12 13 Sonsini, Boies Schiller, and Hyman Phelps for corporate, intellectual property, and regulatory work; 14 outside accounting firms; a leading laboratory consultant to help start and advise on Theranos' clinical 15 laboratory; and outside marketing firms. Ms. Holmes accepted recommendations for Board members 16 whom she believed would provide an appropriate mix of business, public policy, legal, and medical expertise, and who also had experience making sweeping changes to institutional structures that could 17 help Theranos in its journey to fulfill its grand but challenging aspirations.³ Ms. Holmes was a visionary 18 without a college degree who was learning how to be a CEO, but she surrounded herself with 19 employees, directors, advisors, mentors, and consultants whom she believed had the right experience to 20 make Theranos successful. 21

People who worked with her describe Ms. Holmes as an enthusiastic, inspiring, compassionate,
and humble CEO. Ms. Holmes' "drive and ambition was infectious." Ex. A at 109 (C. Dillon Ltr.).
During some of Theranos' most difficult periods, "[w]hile there were without question more difficult

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³ For example, by Fall 2015, the Board of Directors included the former CEOs of Wells Fargo and Bechtel Corp., the Chairman and Managing Partner of a prominent national law firm, two medical

doctors, multiple members of the boards of other companies, and multiple individuals with government
 experience.

days than not, Elizabeth came to the office every single day with a highly engaging and positive energy 1 2 that created the foundation of an environment that allowed us to focus on 'doing our very best work." 3 Ex. A at 96 (T. Cooper Ltr. at 1). Dr. Fabrizio Bonanni, a former Amgen executive who served on Theranos' Board of Directors from 2016 to 2018, was "struck" by Ms. Holmes' ability to listen: "She is 4 5 really interested in hearing feedback, particularly when the feedback is critical of her, her actions, or her company. She listens intently and internalizes the message for further processing. She may ask 6 7 clarifying questions but never interjects biases or defensiveness." Ex. A at 74 (F. Bonanni Ltr. at 3). 8 Craig Josephson, who was a member of Theranos' executive team in the last year of the company, 9 echoes these sentiments, describing Ms. Holmes as focused on making decisions with integrity, doing 10 the right thing for the patient, and being responsive to suggested changes. Ex. A at 169 (C. Josephson Ltr. at 1). 11

12 Former Theranos employees observe that Ms. Holmes genuinely cared about the people who 13 worked for her company. See Ex. A at 78 (T. Brumett Ltr.) (Over decades-long career, "I found 14 Elizabeth to be one of the most employee focused CEOs I have ever worked for. She was approachable, 15 attentive, and supportive."); id. at 87 (L. Cheng Ltr. at 1) ("polite, genuine, and naturally empathetic"); 16 id. at 192 (J. Lu Ltr.) ("She is a hard working woman and was nothing but kind to her employees."); id. 17 at 204 (J. Moalli Ltr. at 2) ("I personally witnessed Elizabeth working with her team on a daily basis, 18 and despite the enormous amount of pressure she was under, she was always empathetic, understanding, 19 and open to new ideas."). Former Theranos Vice President of Hardware Manufacturing Tim Cooper notes: "Her display of genuine care for employees drove a tremendous sense of value and worth within 20 many of us." Ex. A at 97 (T. Cooper Ltr. at 2). "She also reached out, to her best ability, to thank the 21 22 employees for their dedication to the company." Ex. A at 266 (H. Vu Ltr. at 1). Whether it was 23 addressing an employee's health or personal loss or considering difficult staffing decisions at key points in the company's history, Ms. Holmes demonstrated "care and compassion" about individual employees. 24 25 Id. at 98 (T. Cooper Ltr. at 3); id. at 266 (H. Vu Ltr. at 1) ("One thing I had noticed was that she cares so 26 much about the employees and their families."). One former employee describes how, when Ms.

27 Holmes heard about

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she "came to the Newark facility where I

worked, sought me out, embraced me and said she would completely support me in every way possible

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3 When staffing reductions were necessary, "Elizabeth struggled with the implications of these decisions on the individual and was never comfortable with the negative consequences for those 4 5 affected, regardless of the business rationalization or justification." Id. at 98 (T. Cooper Ltr. at 3). This care did not go unnoticed. A former security supervisor for Theranos' Arizona operations recalls: 6 7 "Elizabeth was there for every employee, especially when Theranos closed. Elizabeth made it a point to 8 be there and show significant support during a sudden and arduous job search. Theranos provided every 9 employee with a separation package, resume support services, and job placement before it closed its 10 doors." Ex. A at 207 (B. Morel Ltr.). Former Theranos Laboratory Director Donald Tschirhart summed it up: "Everyone at Theranos liked her; she was strong, she fought for us and she treated us well until the last moments." Ex. A at 262 (D. Tschirhart Ltr. at 2). 12

13 Ms. Holmes did not build Theranos for nefarious reasons—indeed, the opposite is true. PSR ¶ 14 194. The company's mission was to provide access to actionable health information to improve human 15 health on an equitable basis. Ms. Holmes was fundamentally committed to this lofty purpose, and not to 16 her own monetary gain. As former Board Member Bill Foege, former Director of the Centers for 17 Disease Control and Prevention (CDC), puts it in his letter to the Court: "Ms. Holmes was not interested 18 in money." Ex. A at 136 (W. Foege Ltr. at 2); see also id. at 75 (F. Bonanni Ltr. at 4). Former Vice 19 President of Hardware Manufacturing Tim Cooper notes that through his many interactions with Ms. Holmes, "it is my view and strong belief that she has never been motivated by anything other than 20 21 realizing this vision. She never brought financial considerations into our discussions and always placed 22 a heavy emphasis and focus on ensuring that a positive experience and outcome for the individual 23 (patient) was at the forefront of our work." Ex. A at 97 (T. Cooper Ltr. at 2); id. at 109 (C. Dillon Ltr.) (over 12 years on Theranos' research and development team, "I never felt that the love of money or 24 25 greed was ever a motivation for her hard work and dedication. In fact, I only knew her to be 26 compassionate wanting to help people receive better and more accurate healthcare.").

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Ms. Holmes did not personally profit from the investments of others into Theranos. Those 1 investments were used to pay for research and development of groundbreaking inventions and the 2 3 company's operations—not to enrich Ms. Holmes or anyone else. Ex. A at 136 (W. Foege Ltr. at 2). Although Ms. Holmes was touted as a billionaire in the media, her purported "fortune" was entirely on 4 5 paper based on the Theranos stock she owned. She never cashed in that ownership; in fact, she never sold a share of stock, despite the opportunity to do so at several points over the years. See Holmes 6 11/29/21 Tr. 7914:23-7915:23 (testimony of E. Holmes); see Ex. A at 241 (D. Sokol Ltr. at 4) ("In the 7 2015 timeframe, Ms. Holmes was offered the opportunity to sell hundreds of millions of dollars in her 8 9 stock holdings in Theranos. She turned down that opportunity because she felt that she should not profit 10 until all of her investors had returned their investment profitably."). She asked to be paid in Theranos shares rather than cash for her work as CEO, see TX 10510, a request that the Theranos Board denied. 11 See also Ex. A at 74 (F. Bonanni Ltr at 3) (describing how Ms. Holmes was "far from being the most 12 13 compensated employee" at Theranos and the Board's efforts to increase her compensation were met by 14 "her strong resistance"). Near the end of the company's life, "she volunteered even to give up her 15 ownership of the company in hopes of saving it." Ex. A at 262 (D. Tschirhart Ltr. at 2), and voluntarily 16 gave investors a "good portion of her own shares," see id. at 74 (F. Bonanni Ltr. at 3). Nor did Ms. 17 Holmes use corporate resources inappropriately for her own benefit. Dr. Foege, who was a member of 18 the Board of Directors from 2014 through 2018, recalls: "The Board had an audit performed which found no evidence of fraud nor diversion of money." Ex. A at 136 (W. Foege Ltr. at 2). 19

"She always put the interests of the company ahead of her own," notes Daniel Warmenhoven, a
technology industry executive who served on Theranos' Board from 2016 to 2018. Ex. A at 269 (D.
Warmenhoven Ltr.). Dr. Fabrizio Bonanni, also a Board member from 2016 to 2018, observes: "In my
almost fifty years in business, I have not seen or heard of a more selfless CEO." Ex. A at 74 (F.
Bonanni Ltr.) at 3.

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4. Relationship with Mr. Balwani

It is impossible to understand Ms. Holmes' experience at Theranos, and particularly with respect to the offense conduct, without closely examining her relationship with Sunny Balwani. In the wake of

Case 5:18-cr-00258-EJD Document 1655 Filed 11/19/22 Page 19 of 82

her rape, around the time she was considering leaving Stanford, Ms. Holmes reconnected with Mr. 1 2 Balwani. Ms. Holmes first met Mr. Balwani just after she graduated from high school on the Stanford-3 sponsored trip to China. Ex. F (photo); Holmes 11/29/21 Tr. 7847:4-7. She was eighteen, and he was thirty-eight. Id. at 7847:8-11. She understood that he was a successful businessman who had built and 4 5 sold his own company and had worked with Microsoft, and she viewed him as a potential advisor and mentor during that summer. Id. at 7847:12-24. As Ms. Holmes was thinking about leaving Stanford, 6 7 she responded to outreach from Mr. Balwani. Mr. Balwani encouraged and supported her decision and 8 offered his business advice. Ms. Holmes confided her trauma and depression to him. He told her she 9 was safe now that she was with him. *Id.* at 7849:10-7850:3. They began a romantic relationship.

The relationship between Ms. Holmes and Mr. Balwani was characterized by severe emotional,
psychological, and sexual abuse perpetrated by Mr. Balwani.

Mr. Balwani expressed his desire to help Ms. Holmes develop as a person and a leader. As time
went on, that expressed love and desire manifested as progressively controlling behavior. *See What is Domestic Violence*, U.S. Department of Justice Office of Violence Against Women,

https://www.justice.gov/ovw/domestic-violence (last visited Nov. 8, 2022) ("Domestic violence is a
pattern of abusive behavior in any relationship that is used by one partner to gain or maintain power and
control over another intimate partner."); Mary Ann Dutton & Lisa A. Goodman, *Coercion in Intimate Partner Violence: Toward a New Conceptualization*, 52 Sex Roles 743, 747 (2005) (describing intimate
partner abuse as multifaceted and centered around coercive control). Some (but not all) of that behavior
is described below.

Mr. Balwani demanded that Ms. Holmes follow a series of prescriptions, including keeping a
strict schedule with little sleep, limiting her food intake, refraining from alcohol, and maintaining a
particular manner and personality style. Mr. Balwani prescribed tenets for Ms. Holmes to follow, which
he wrote for her, *see, e.g.*, TX 7734, and Ms. Holmes was required to write out her schedule regularly
and confirm her commitment to his teachings, *see, e.g.*, TX 7731.

Mr. Balwani also insisted, in the form of verbal and written berating, that Ms. Holmes was
incompetent, fundamentally flawed as a person and a leader, and needed to change who she was—in his

MS. HOLMES' SENTENCING MEMORANDUM CR-18-00258 EJD

words, "kill" the current Elizabeth and become a new one-to become a worthy leader. Holmes 1 2 11/29/21 Tr. 7859:16-21, 7863:11-23. The "advice" he provided was large and small-from live 3 criticisms of her manner of speaking, see TX 5387F at -148 ("You are speaking with everyone in your giddy voice"), -246 ("U r rambling now. Let's stay focused"), to lengthy diatribes that went to her core 4 5 as a leader. Ms. Holmes' assistant from 2014 through 2018 confirms: "[Mr. Balwani] would constantly go into her office, shut the door, and then kick out whoever was in her office. He would then scream at 6 7 her. I could overhear the screaming." See Ex. A at 116 (L. Durkin Ltr.). Because Mr. Balwani insisted 8 that she write down and repeat back to him what he was saying, Ms. Holmes captured some of these tirades in iPhone notes, such as one modified April 5, 2015. See TX 7534 at 2 ("Toughen up. Become 9 masculine be in battle [sic]. Masculine game. Business masculine game."); id. ("I'm so sick and tired of 10 this mediocrity you create. It's astonishing. You'll never hold anybody responsible for any actions. 11 You'll never do that.... Monkey's [sic] can't fly spaceships."). Text messages also show Ms. Holmes 12 13 seeking Mr. Balwani's approval as she repeated back his lessons. See TX 5387F at -63 (Ms. Holmes: "My new life as of this night and forever more: - total confidence in myself best business person of the 14 15 year - focus - details excellent - don't give what anyone thinks – engage employees in meetings by 16 stories and making it about them (ie prepare well)" . . . Mr. Balwani: "Awesome. U r listening and 17 paying attention.").

Ms. Holmes believed Mr. Balwani's criticisms of her and sought to do better. She likewise
believed he was fundamentally important to the company: in her mind, as in his screeds, setbacks were
due to her failures, but success was due to him—after all, according to him: "I have molded you." TX
5387F at -207. Although the precise contours evolved over time, this pattern played out on a regular
basis throughout the relationship, including when Mr. Balwani was at the company.⁴ Dynamics such as
these are common in abusive relationships and especially effective at creating a culture of control. *E.g.*,

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- ²⁵⁴ Mr. Balwani's rage was not solely directed at Ms. Holmes. Ms. Holmes' sister-in-law, who ²⁶^{began} dating Ms. Holmes' brother Christian while he was working at Theranos, observed that "the ²⁷Sunny I saw was certainly controlling. . . . In the communications I witnessed first hand, it was clear he
- was adept at belitting people and making them feel stupid." Ex. A at 152 (C. Gualy Ltr. at 1). Others
 whom the government interviewed but chose not to call at trial made similar observations.

Hamberger et al., *Coercive Control in Intimate Partner Violence*, 37 Aggression & Violent Behavior 1,
3 (2017) ("[I]t is important to note that vulnerabilities and related threats are not limited to violence. For
example, the systematic tearing down of the target's self confidence and trust in her own decisions,
opinions and abilities commonly seen in IPV may make her vulnerable to threats of abandonment . . .,
judgment, humiliation, or failure if the perpetrator's desires are not met. In this way, the consequences
of a pattern of emotional abuse may make a target more vulnerable to coercive control.").

7 Over the first several years of their relationship, Ms. Holmes became increasingly isolated from 8 friends and family. See Holmes 11/29/21 Tr. 7860:13-7861:8. Friends describe losing contact with Ms. 9 Holmes. Ex. A at 154 (P. Gupta Ltr. at 1) ("She also fell into an all-consuming relationship with Sunny, who seemed to pull her farther away from me. She became reserved and withdrawn, and strangely 10 secretive. I was worried about the effect Sunny was having on her, and I urged her to take caution, but 11 to no avail."); *id.* at 130 (J. Ewing Ltr. at 1) ("Sunny was significantly older than we were, to an 12 13 alarming degree, but Elizabeth was very taken in by him. He struck me at the time like a father figure, someone she trusted, who could guide and mentor her, who could validate her, as she should ered this 14 15 incredible undertaking she felt was necessary for the world. I lost contact with Elizabeth after that.").

Ms. Holmes' parents recall their own discomfort and concern with their daughter's relationship
with Mr. Balwani. They were aware that Mr. Balwani insisted on listening when they spoke with their
daughter on the phone, and they witnessed Mr. Balwani criticize and yell at Ms. Holmes until she cried,
along with other behavior that made them uncomfortable. *See generally* Ex. A at 35-37 (N. Holmes Ltr.)
at 6-8), 22 (C. Holmes Ltr.) at 10. Noel Holmes recalls a trip she took with Ms. Holmes:

In January 2007, we were finally able to go away to Big Sur for two days over the weekend with just our family. Although it was difficult to connect by phone there[,] Sunny kept calling and berating Elizabeth. He had her in tears and she insisted we needed to leave. When we started driving back and the connection was better, I could hear him yelling at her for not working. She became very nervous and kept asking if we could somehow drive faster to get home.

Ex. A at 36 (N. Holmes Ltr. at 7). Ms. Holmes' brother Christian similarly recalls how his relationship
with Ms. Holmes changed after she began her relationship with Mr. Balwani:

In the years that followed, my relationship with my sister was reduced to a series of formalities around her work. She spent all her time with Sunny and rarely included our as the series of the seri

MS. HOLMES' SENTENCING MEMORANDUM CR-18-00258 EJD

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Case 5:18-cr-00258-EJD Document 1655 Filed 11/19/22 Page 22 of 82

1	family. She stopped coming to family gatherings and became more remote. I lived within driving distance from Elizabeth for about 5 years during this time period and worked with
2 3	her for a number of years, and can't remember sharing a meal with just the two of us more than a handful of times, let alone many meaningful conversations.
4	Ex. A at 162 (Christian Holmes Ltr. at 2); see also Ex. A at 152 (C. Gualy Ltr. at 1); id. at 116 (L.
5	Durkin Ltr.) ("Elizabeth was not allowed to have lunch or dinner with anyone but Mr. Balwani because
6	Mr. Balwani would not allow otherwise."); id. at 166 (M. Holmes Ltr.). Isolating behavior is a hallmark
7	abuse tactic. ⁵
8	Mr. Balwani's abuse involved severe sexual elements that caused Ms. Holmes particular
9	distress, including thoughts of suicide. These events occurred in the home they shared,
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11	Contemporaneous records
12	corroborate the aftermath: after a February 2015 incident, Ms. Holmes both expressed her personal
13	despair in an iPhone note, and also apologized to Mr. Balwani for her inability to be strong for him. See
14	TX 7517; TX 5387F at -121 (Ms. Holmes: "I'm sorry I wasn't stronger for you this morning. That is
15	my responsibility and my role. I will never let that happen again." Ms. Holmes: "My job is to love
16	you when you're stressed." Mr. Balwani: "I know.").
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18	Research
19	on abusive relationships identifies sexual violence as deeply impactful because it "attack[s] core aspects
20	of bodily integrity, autonomy, and trust." Logan et al., Silenced Suffering: The Need for a Better
21	Understanding of Partner Sexual Violence, 16 Trauma, Violence, & Abuse 111, 115 (2015); see also
22	Logan et al., A Mixed-Methods Examination of Sexual Coercion and Degradation Among Women in
23	Violent Relationships Who Do and Do Not Report Forced Sex, 22 Violence and Victims 71 (2007).
24	That Ms. Holmes trusted Mr. Balwani and offered expressions of love to him while
25	simultaneously suffering from his abuse should not come as a surprise. Research on abusive
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27	⁵ See generally Dutton & Goodman, 52 Sex Roles at 749 (noting that "interfering with victims' social networks wear down one's ability or will to resist").
28	Social networks wear down one s admity of will to resist <i>j</i> .

Case 5:18-cr-00258-EJD Document 1655 Filed 11/19/22 Page 23 of 82

relationships makes clear that the coexistence of love and abuse is a central conundrum of such 1 2 relationships. See Deborah K. Anderson & Daniel G. Saunders, Leaving an Abusive Partner: An 3 Empirical Review of Predictors, the Process of Leaving, and Psychological Well-Being, 4 Trauma, Violence, & Abuse 163, 170-71, 172, 175-78 (2003). Ms. Holmes was fearful of Mr. Balwani's wrath 4 5 and sought to please him, but she also trusted him completely, believed he had her best interests at heart, and loved him. The text messages between them show expressions of love, apologies, and attempts to 6 7 appease—placating strategies well-recognized in the literature. E.g., TX 5387F at -42-43. See, e.g., 8 Jessica R. Goodkind et al., A Contextual Analysis of Battered Women's Safety Planning, 10 Violence 9 Against Women 514, 528 (2004) (describing placating strategies used by abused women and effects).

10 The severe abuse Ms. Holmes suffered at the hands of Mr. Balwani affected her deeply, including in her role as CEO of Theranos. As she testified, the abuse occurred throughout the 11 relationship, including during the period when they both worked at Theranos and in the course of and 12 13 with regard to that work. See Holmes 11/29/21 Tr. 7860:4-8, 7870-7872; see also TX 7534; Ex. A at 116 (L. Durkin Ltr.). At Theranos, Mr. Balwani took primary responsibility for "operational" aspects of 14 15 the company. That included preparing the company's financial statements (including revenues and 16 revenue projections), managing the retail partnership with Walgreens, overseeing operations of the 17 clinical laboratory, as well as manufacturing operations and general personnel matters. Mr. Balwani 18 was also responsible for following up with potential investors after an initial meeting, as he was the best positioned to answer questions about Theranos' financial model and projections, as well as the 19 operational issues that are often the topics of due diligence requests. Mr. Balwani not only ran 20 Theranos' operations but was also Ms. Holmes' most important advisor, and he had outsized influence 21 22 given the circumstances of their relationship. That is reflected in the government's most recent 23 assessment of the relationship:

Besides his position that we talked about, you can also infer that his close relationship with Ms. Holmes would have given him a lot of influence over her, more than just his title alone would provide. Remember also that Mr. Balwani was older and more experienced than Ms. Holmes. So it would be no surprise that his advise [*sic*], his input would carry a lot of weight with her. And that's what showed up in the text messages.

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Balwani 6/24/22 Tr. 7652:9-17 (government rebuttal closing in S. Balwani trial). Until late 2015 or 1 2 early 2016, Ms. Holmes trusted Mr. Balwani completely. Holmes 11/29/21 Tr. 7875:15-25, 7876:1-7877:10, 7879:16-21. As Ms. Holmes explained, between 2010 and 2016, Mr. Balwani "had taught me 3 everything that I thought I knew about business, and I thought he was the best business person that I 4 5 knew. And I think that I didn't question him in the way that I otherwise would have." Id. at 7875:21-25. Ms. Holmes is still processing what effect the relationship had on her. As she testified, Mr. Balwani 6 "impacted everything about who I was, and I don't fully understand that." *Id.* at 7879:12-15.⁶ The fact 7 8 that the abusive dynamic affected their workplace relationship and the fact that Ms. Holmes deferred to 9 Mr. Balwani, especially in areas where he was formally responsible, is consistent with research on intimate partner abuse. E.g., Logan et al., 16 Trauma, Violence, & Abuse at 121 ("In essence, coercive 10 control erodes an individual's capacity for independent decision making or personal agency.... Stark 11 12 (2007) argues that the net effect of coercive control on a victim is global: Victims suffer from 13 cumulative harms rather than just suffering from injuries resulting from specific and definable 14 incidents."); Dutton & Goodman, 52 Sex Roles at 748-752; Hamberger et al., 37 Aggression & Violent 15 Behavior at 2-3 ("Multiple authors agree that coercive control impacts virtually all dimensions of the 16 target's life, including everyday actions, use of economic resources, relationships with family and 17 friends, educational and occupational opportunities, sexuality, and general life activities.").

Ms. Holmes was finally able to leave her relationship with Mr. Balwani once he left the
company. When he was on a trip abroad, Ms. Holmes enlisted her brother to help her move out of their
shared residence. Ex. A at 152 (C. Gualy Ltr. at 2); *id.* at 116 (L. Durkin Ltr.). Once Mr. Balwani
understood what was happening, he began to text and call Ms. Holmes—he insisted she wait until he
came home, told her she was making a mistake, and moved up his international travel to fly back to
California from Asia as soon as possible. TX 5387F at -440.

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 ⁶ This makes sense. *See, e.g.*, Dutton & Goodman, 52 Sex Roles at 751-52 ("The day-to-day
 'rules' imposed by an abusive partner may be those that one becomes accustomed to as a personal risk management strategy—even without recognizing the extent of compliance."); Shannon B. Nicholson &

David J. Lutz, *The Importance of Cognitive Dissonance in Understanding and Treating Victims of Intimate Partner Violence*, 26 Journal of Aggression, Maltreatment, & Trauma 475 (2017).

Since leaving the relationship, Ms. Holmes has been able to begin processing its effects and healing from it. See Ex. A at 249 (D. Sterling Glasband Ltr. at 2). Part of that has been supporting friends and family who have had similar experiences as they work through their own trauma. Ex. A at 180, 181 (J. Lamping Ltr. at 1, 2); id. at ; *id.* at 123-24 (G. Evans Ltr. at 1-2).

Ms. Holmes' Current Family Life

6 Ms. Holmes began dating her partner, Billy Evans, in the first half of 2018. Mr. Evans and multiple friends who have submitted letters describe their initial hesitation in befriending Ms. Holmes once they realized who she was, and how the woman they came to know despite their trepidation was a 9 "gentle and naive," hopeful, loving, humble, patient, and dedicated "beyond what most people have ever 10 experienced." Ex. A at 1-2, 8 (B. Evans Ltr. at 1-2, 8); see also id. at 126 (S. Evans Ltr. at 1), 212 (T. Offer Ltr. at 1). To Mr. Evans, Ms. Holmes has become a supportive partner and coparent. "She approaches my greatest mistakes the same as my limited triumphs, with an unwavering love and gentle touch." Ex. A at 4 (B. Evans Ltr. at 4).

14 Ms. Holmes and Mr. Evans seek to live a private, quiet life with meaningful relationships with 15 family and friends. Family has always been important to Ms. Holmes, and she brings that value into her 16 new family—Billy's family—as well. Mr. Evans describes how Ms. Holmes helps keep him close to his 17 original nuclear family. Sometimes this is through seemingly small things, like sending individually 18 curated sets of photos to each of their son's grandparents each day "because she knows how much it 19 means to our parents to be a part of our lives." Ex. A at 4 (B. Evans Ltr. at 4). But she has had a more 20 significant role as well. Mr. Evans describes how Ms. Holmes' love and patience helped heal his 21 relationship with his brother, who had gone through his own hardships: "My closeness to my brother is 22 all thanks to her. ... I am so proud of the man he has become, in no small part because of Liz's 23 determination and patience." Id. at 4 (B. Evans Ltr. at 4); see id. at 214 (K. O'Neill Ltr. at 1). Others in 24 the Evans family agree that Ms. Holmes has been an overwhelmingly positive addition to the family, 25 describing her as having "a soft-spoken manner and a generous heart," a person who "is happy to give 26 her time to other family members when they need her help or advice," a person who "lift[s] others up and help[s] to make room at the table for one another," a "comforter" who is "very attentive to the needs

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Case 5:18-cr-00258-EJD Document 1655 Filed 11/19/22 Page 26 of 82

of others and is often helping with advice or just lending a listening ear." Ex. A at 64 (A. Billings Ltr), 1 2 120 (A. Evans Ltr.), 70 (G. Bolster Ltr.), 126 (S. Evans Ltr. at 1). "All these characteristics make me 3 very proud to know Elizabeth and to have her join our family circle," say Mr. Evans' mother. Ex. A at 127 (S. Evans Ltr. at 2). 4 Ms. Holmes and Mr. Evans welcomed their son, W 5 Evans in July 2021. Family and friends observe Ms. Holmes' total love for and devotion to this little boy. Mr. Evans 6 7 describes Ms. Holmes in this new role of mother: 8 I wish you could see his happiness; his deep belly laughs that Liz helps encourage and the confidence of a young mind who does not yet appreciate some of the difficulties this 9 world has to offer him. His bond with Liz is incredible . . . I wish you could hear how she sings to him every morning when she brings him out of his crib and tells him how his day and the life ahead has so much good in store for him. I wish you could walk with us 10 in the mornings and see how she has turned the fear he once had for the neighbors' horses into a carrot feeding frenzy ... I wish you could see Liz and I dancing in the kitchen, 11 in our arms, giving him "doubles" as we kiss both sides of his cheeks. ... I wish W you could see how she is as enthusiastic to change his diaper as she is to paint with him 12 and read to him. ... I wish you could see how she rocks him to sleep every night while 13 singing Amazing Grace and telling him the tales of a boy who values kindness, honesty, and generosity above all else. I wish you could hear how quickly she can turn his cries of 14 exasperation to giggles as she helps calm his tired mind. 15 Ex. A at 5 (B. Evans Ltr. at 5). 16 Friends and family concur with Mr. Evans. "To join Elizabeth, Billy, and their son W on a Sunday afternoon at their home in Woodside is to experience a family with strong roots at peace in a 17 18 loving atmosphere." Id. at 138 (J. Fogelsong Ltr.); id. at 198 (N. Mason Ltr.). "I have been witness to a 19 mother falling completely and utterly head over heels in love with her son," says one friend. Ex. A at 194 (T. MacNiven Ltr. at 1). She is a "hands-on, loving, attentive mother," with W "waddl[ing] after 20 her like a baby satellite," notes another. Ex. A at 258 (M. Thompson Ltr. at 2). See also Ex. A at 127 21 (S. Evans Ltr. at 2) ("Elizabeth is the most nurturing and loving parent to W"."), 37 (N. Holmes Ltr. at 22 23 8), 157 (J. Hamilton Ltr. at 2) ("I watched Elizabeth sit with little W for hours on the outside patio of their home, overlooking the trees in the distance, explaining to him the sights and sounds of the 24 beauty in front of him.... And despite this incredibly difficult stage in her life, Elizabeth has continued 25 to build a beautiful life for W where he is loved with all the adoration and support one could 26 imagine providing this little human being."); 150 (H. Grenier Ltr. at 1); 176 (J. Koch Ltr. at 2) ("Liz sees 27 28 MS. HOLMES' SENTENCING MEMORANDUM

CR-18-00258 EJD

the world through W [sic] eyes and helps him to engage with his surroundings. Liz creates a caring,
 calm, and loving environment for W ?; 223 (B. & T. Raleigh Ltr.). Ms. Holmes has "spared" W
 "any inkling of her worry and sadness" related to this case: "All he has experienced is his mother's joy
 to be with him and her love for him." Ex. A at 27 (C. Holmes Ltr. at 15).

Volunteer Work

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6 Despite her current circumstances, Ms. Holmes has worked to find ways to continue contributing 7 what she can to the world. Dr. Foege, the former Director of the CDC who served on Theranos' Board 8 from 2014 to 2018, describes a conversation with Ms. Holmes after Theranos shut down, after her 9 indictment, in which "she was still asking for advice on how her skills could be used for good. . . . Her 10 questions revolved around what else could she do that would be of benefit to society. She was not trying 11 to revive Theranos, but was looking for alternative ways of contributing to the world." Ex. A at 137 (W. 12 Foege Ltr. at 3). She can't help but think about solutions to the problems she learned so much about and 13 tried to solve while at Theranos, and has ideas about how technology can make it easier for consumers 14 to access and control their health care records. PSR ¶¶ 137, 138.

More immediately, however, Ms. Holmes has dedicated herself to help those who have suffered
from traumas similar to her own. After her conviction, Ms. Holmes became certified as a rape crisis
counselor and advocate, and has spent over five hundred hours volunteering in support of sexual assault
survivors, including victims of domestic violence, with the

Ex. A at 46 (Ex. A tr. at 1).⁷ This work has included scores of shifts manning a
recently launched statewide helpline that provides survivors with trauma advocacy and support
and, as appropriate, connects survivors to resources they need, including law enforcement, government
agencies, and shelters. *Id.*; PSR ¶ 136. "She has worked with a variety of callers, including calls with
actively suicidal victims of sexual assault, calls with community professionals, and calls to local law
enforcement and/or [the Division of Child and Family Services] when necessary." Ex. A at 47 (Ex. A st 47)

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⁷ Ms. Holmes applied to volunteer with several organizations local to the Bay Area, but those organizations declined to work with her.

Ltr. at 2). Her work on the helpline has received praise from callers and law enforcement alike. *Id.* at 46-47 (Ltr. at 1-2).

The organization reports that Ms. Holmes has also worked on "assisting with the compilation of
sexual assault and domestic violence resources statewide for callers as well as identifying gaps in
resources available to victims of crime throughout the state." Ex. A at 47 Ltr. at 2). This
includes hours working on draft legislation to support survivors' rights and resources. *See* Ex. A at 6 (B.
Evans Ltr. at 6).

This work is deeply personal to Ms. Holmes. She sees it as a way to try to help others, and apply learnings from her own journey toward being there for people in their hardest moments. According to : "The hours that Elizabeth has volunteered over the past months have filled a great need in the community." Ex. A at 47 (

B. Personal Characteristics

13 "There has been a great deal said and written about the fictional Elizabeth Holmes." Ex. A at 13 14 (C. Holmes Ltr. at 1). Ms. Holmes has been the subject of caricature in extensive and intrusive media 15 portrayals, whether that portrayal is couched as a nonfiction book or a fictionalized dramedy. Those 16 caricatures, presented by people who do not know Ms. Holmes, are strikingly false, as the scores of 17 people who actually know Ms. Holmes make clear in their letters to the Court. "I've been taken aback 18 by just how dramatically divergent the fictional character of Elizabeth Holmes presented in the media is 19 from the entrepreneur, woman, partner, mother, and friend I have come to know and care about." Ex. A 20 at 62 (G. Bianchini Ltr. at 1); id. at 101 (M. Crane Ltr. at 2) ("I am offended by these portrayals of her 21 and find them infuriating and tragic."). One of Ms. Holmes' friends describes the contrast between a 22 caricature who is "robotic, devoid of emotions" and the real human being: "She puts on a stoic face in 23 public, as she was trained to do, but with her trusted friends and family, Elizabeth is full of love, 24 empathy, kindness, and grace. Sadness and despair, too. When I dropped her off for court one morning, 25 ... the tears welled up in her eyes as the unimaginable gravity of what she was facing hit her yet again." 26 Ex. A at 181 (J. Lamping Ltr. at 2).

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The collection of letters attached as Exhibit A paint a consistent picture of Ms. Holmes as a 1 compassionate, generous, optimistic, honest, and thoughtful person. The fact, volume, and substance of 2 3 those letters is particularly meaningful given their context in this sensationalized case. As Mr. Evans notes: "The fact that Liz still has the support she does despite the risks of associating with her is a 4 5 testament to her goodness. Many of the letters you will read were written and submitted by loyal people who know their careers and public standing will be put in jeopardy because of their public support for 6 7 her.... But the ones you'll see nonetheless feel compelled to ... tell you what otherwise might be missed." Ex. A at 8 (B. Evans Ltr. at 8). One of Ms. Holmes' childhood friends emphasizes: "There are 8 9 so many people who genuinely know and love Elizabeth, who is a real person with a resilience I have never seen in anyone else." Ex. A at 58 (M. Thompson Ltr. at 2). 10

Friends, family, former employees, advisors, and others who know her describe her in positive terms. She is "incredibly warm, intelligent, engaging, with a kind and gentle demeanor," Ex. A at 57 (E. Batzoglou Ltr.); a person of strong faith in God, *id.* at 60 (P. Berloty Ltr. at 1); "the kindest soul," "the kind of person who picks something up when she sees it has fallen," *id.* at 117 (L. Durso Ltr. at 1); "humble, extremely curious about others, always willing to put her priorities second, a bit quiet and very gracious," *id.* at 209 (R. Gross Ltr. at 2). Several additional aspects of her character also stand out in the letters.

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1. Deep Interest in Making the World a Better Place

19 Ms. Holmes' heartfelt desire to do good in the world is core to her character. As Senator Cory 20 Booker, a champion of criminal justice reform and restorative justice, writes: "I've always been struck 21 by the way our conversations focused on her desires to make a positive impact on the world. . . . Her 22 focus was always thoughtful, demonstrating a depth of knowledge about such issues, a curiosity to know 23 more, and a determination to make a difference herself." Ex. A at 76 (C. Booker Ltr. at 1). Friends, 24 family, former coworkers, and advisors from all facets of her life consistently emphasize Ms. Holmes' 25 intent to make the world a better place from the time she was a child to today and talk about the projects 26 she has pursued to do so. For example:

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Case 5:18-cr-00258-EJD Document 1655 Filed 11/19/22 Page 30 of 82

• A former employee notes: "Elizabeth is and has always been driven by a single and simple purpose; she wants to make the world a better place than it would have been without her." Ex. A at 96 (T. Cooper Ltr. at 1); *see also id.* at 75 (F. Bonanni Ltr. at 4) ("[T]he Elizabeth Holmes I met in May 2016 and whom I got to know well and admire over the following years is a principled, deeply ethical, intelligent, hardworking, selfless woman, dedicated to the worthwhile mission of improving health care.").

• A former government official who first met Ms. Holmes in the hopes of a government partnership on widespread disease testing and tracking opines: "I believe the reason Elizabeth has so much passion about promoting this vision is her deep sense of humanitarian purpose. She cares deeply about making the world a healthier and better place for future generations." Ex. A at 270 (A. Weber Ltr.).

• An intellectual property attorney who served as an outside advisor observes that Ms. Holmes "had the right intentions—she wanted to put out a quality, accurate product that would expedite diagnosing ailments and thus improve our collective public health." Ex. A at 82 (T. Carroll Ltr. at 1).

A college friend explains: "That has always been her goal and the driving force behind her work. To serve people and make the world a better place." Ex. A at 255 (A. Sutro Ltr.); *see id.* at 197 (S. Mantri Ltr.).

- A longtime family friend describes: "She wanted to learn things to do things and to make an important contribution to society." Ex. A at 139 (S. Freeman Ltr. at 1); see also Ex. A at 218 (C. Perez-Rubio Ltr.).
- A friend since 2019 says: "The woman who sits in front of you is humble, thoughtful, and a committed citizen of this country who truly and passionately wants to make the world a better place." Ex. A at 245 (E. Sorgi Ltr. at 2); *see also id.* at 50 (I. Aboyeji Ltr. at 3) ("[T]he Liz I know is a kind, driven young woman who only seeks to leverage technology and innovation to change the world by making health care more accessible to billions of people").

These letters also describe how Ms. Holmes' devotion to doing good persists to this day, part of her
 authentic core.

3 Ms. Holmes combines this desire to do good with a persistent optimism and determination that friends and family find especially notable given her current circumstances. Mr. Evans explains: "Liz 4 5 has always approached life through the lens of what is possible. . . . She approaches hard problems and easy alike, constantly in search of a solution and with a belief in doing what most others would deem 6 7 impossible." Ex. A at 2 (B. Evans Ltr. at 2). "She believes deeply in the goodness of the world and all 8 those around her." Id. at 3 (B. Evans Ltr. at 3). One letter describes the handwritten note Ms. Holmes wrote for her friends' newborn shortly after her indictment, which ends "Welcome to a wonderful 9 world"—a testament to Ms. Holmes' "ardently resilient optimis[m]." Ex. A at 95 (A. & S. Kiessig Ltr.). 10 Ms. Holmes' mother observes that the technology developed at Theranos is "out there in the world, and 11 12 someone will finish doing it and make Elizabeth's vision come true. . . . Maybe that is why she remains 13 so full of gratitude and optimism about the future of this world." Ex. A at 39 (N. Holmes Ltr. at 10).

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Caring and Reliable Friend

Ms. Holmes' desire to do good in the world does not come at the expense of touching the lives of
individuals she loves. "[T]he thing about her is that she is not all about herself; she is into 'you.' When
you are speaking to her, it's as if she 'disappears' herself to focus on you and what you are saying." Ex.
A at 139 (S. Freeman Ltr. at 1). It is therefore perhaps not surprising that, as Mr. Evans notes, "in
reading these letters you will come to realize how Liz is the go-to person for so many that are dealing
with life's hard moments." Ex. A at 3 (B. Evans Ltr. at 3).

Numerous letters describe Ms. Holmes' thoughtful commitment to being there for her friends
despite her personal travails. Ex. A at 62 (G. Bianchini Ltr. at 1); *see also* Ex. A at 143 (K. Gavrieli Ltr.
at 1). She is a person who drives hours to ensure a friend

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; who offers her support to a friend

who leaves an event on a moment's notice to let a

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26 friend vent frustrations about that friend's professional life, see Ex. A at 274 (C. Zygourakis Ltr. at 2);

27 and who supports a friend in the aftermath of personal tragedy, see Ex. A at

friend explains: "When I went through a deeply broken heart in 2018, Elizabeth could feel my pain from
all the way across the country without me saying a word. She sent flowers, called every day for weeks,
and held space for me, never rushing away to deal with managing her own challenges. During another
difficult life event, she sent a teddy bear because she couldn't be there to hug me in person." Ex. A at
181 (J. Lamping Ltr. at 2); *see id.* at 231-32 (J. Randolph Ltr. at 1-2). Mr. Evans' sister Grace describes
how Ms. Holmes was there for her "[d]espite the chaos going on in [Ms. Holmes'] world":

She would send me heartfelt messages reminding me of my worth or a simple call to see how I was doing. Her calmness talked me through panic attacks when I was unable to get off my bathroom floor or say a coherent word. She had patience with me – she was always there. She became my escape, when I needed a place to go, I was always welcome at her home. During this time, she showed me her inherent kindness and empathy.

Ex. A at 124 (G. Evans Ltr. at 2). Another friend notes that "small as they may be compared to hers, my 10 life's needs and challenges have often taken center stage in our friendship," including navigating 11 12 professional challenges and "several difficult personal situations." Ex. A at 271 (Y. Yu Ltr. at 1). 13 Another writes: "You truly get a sense of someone's character and heart when they are going through 14 intense adversity. Elizabeth was always there for me even as she was progressing through the toughest 15 time of her life. No matter how small or big of an issue I was dealing with, Elizabeth consistently 16 listened to me and provided me with the support/guidance to overcome the issue." Ex. A at 145 (A. 17 Goldberg Ltr. at 1). Other friends echo these sentiments. E.g., Ex. A at 248 (D. Sterling Glasband Ltr. 18 at 1) ("Liz is a thoughtful and loyal friend – the kind of person who calls you on your birthday, who 19 remembers when you have a big pitch meeting and checks in to see how it went."). Mr. Evans' father succinctly observes: "In her world she comes last." Ex. A at 121 (W. Evans Ltr. at 1). 20

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3. Advisor and Mentor

Consistent with Ms. Holmes' desire to help others and make a difference, she makes time to mentor and advise others—whether it is reflecting on and sharing her own mistakes and lessons learned, helping connect individuals who may face social barriers to the resources they need, or just encouraging a young person to pursue his or her entrepreneurial dream. Mr. Evans' sister notes: "I often say I should write a book – everything I have learned through Elizabeth being in my life. It would certainly be a page turner but endless." Ex. A at 123 (G. Evans Ltr. at 1). One friend describes how Ms. Holmes'

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"mentorship and advice" "contributed considerably" to the success of a young Kenyan entrepreneur who 1 2 was working to bring greater medical care to small African clinics. Ex. A at 49 (I. Aboyeji Ltr. at 2). 3 Another attributes her own literacy startup to the role model she found in Ms. Holmes: "Elizabeth inspired me to start my own company, Literati, which helps kids find books and become stronger 4 5 readers. We all need heroes that look like us." Id. at 131 (J. Ewing Ltr. at 2). One writer tells how, at Theranos' apex, Ms. Holmes encouraged her young daughter in scientific pursuits and continued an 6 7 email relationship with her, "inspir[ing] her to dream at a critical time." Id. at 201 (B. McIntyre Ltr. at 8 1); see also id. at 207 (B. Morel Ltr.) (describing Ms. Holmes' efforts to mentor female entrepreneurs 9 while she was CEO of Theranos). A family friend similarly notes that Ms. Holmes met virtually with her "10 year old niece who declared that she wanted to start her own business." Id. at 219 (V. Perez-10 Rubio Maffia Ltr.). And a female venture investor recounts how Ms. Holmes "took time away from her 11 trial preparations to help me recruit advisors to support my career (with incredible insights as a function 12 13 of her own experience on who can truly be valuable versus who I might perceive to be valuable)." Ex. 14 A at 271 (Y. Yu Ltr. at 1).

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4. Intelligent and Visionary

Those who know her also describe Ms. Holmes as a brilliant thinker whose vision has 17 contributed to the scientific community. Her talents lie in bringing concepts from different scientific 18 contexts together for a new use. Former Theranos Technology Advisory Board Member Dr. John 19 Moalli views Ms. Holmes as "the most intelligent person I have ever met. The depth and breadth of her 20 brilliance cannot be overstated, and, perhaps more importantly, should not be overshadowed by mistakes 21 she has made in the business environment." Ex. A at 203 (J. Moalli Ltr. at 1). A lawyer who reviewed 22 Theranos' patent portfolio explains that "Elizabeth created valuable technologies; she contributed 23 greatly to science; and she is a brilliant innovator." Ex. A at 83 (T. Carroll Ltr. at 2). Theranos Board 24 members Dr. Foege and Dr. Bonanni agree. Ex. A at 137 (W. Foege Ltr. at 3) (noting "scientific gifts"); 25 id. at 74 (F. Bonanni Ltr. at 3) (noting company's valuable technological developments). Theranos 26 Laboratory Director Donald Tschirhart, who joined the company in 2016, asks that the Court "consider 27 the immense contributions that she has made to the field of laboratory medicine and to humanity, even if

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at this point they don't understand what they have been given. I hope in some way that you can find her
 redemption in these good deeds." Ex. A at 262 (D. Tschirhart Ltr. at 2).

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5. **Positive Impact on Others**

Ms. Holmes' positive qualities have the effect of inspiring those around her. Former employees describe how her dedication, mission, and gratitude inspired them to work hard. For example, one Theranos employee explains how Ms. Holmes inspired her colleagues by "develop[ing] and foster[ing] a special energy within many of us to think differently about our work and impact it has on others," a worldview that he and others have taken with them to other endeavors: "I know of several colleagues who pivoted their experiences at Theranos into much the same with a higher motivation than before to make lasting positive change on those they work with and the world around us." Ex. A at 98 (T. Cooper Ltr. at 3).

This is true for her friends as well. As her friend Lauren Stat puts it: "She learns the hard way, and challenges those around her to grow and learn as well." Ex. A at 247 (L. Stat Ltr. at 2). Another college friend emphasizes the point: "In my journey as a young professional woman facing challenges in the business world of healthcare, Elizabeth has always extended a hand to motivate me to take small steps while thoughtfully dreaming big." Ex. A at 235 (S. Samagh Ltr.); see id. at 237 (B. Smith Ltr.) ("Throughout the years she has been there for me when I faced a headwind in my own career and her own strength has inspired and motivated me to persevere and pursue my ambitions and dreams."). Mr. Evans reflects that because of his partnership with Ms. Holmes I finally like the person who I have become. I'm proud of the father Liz has helped me become, I am proud of the relationship we have with our families and friends, I am proud of many things now that I was not before I met her. She may have ultimately failed to change the world in the way she set out, but she has underlably changed mine. She continues to hold me accountable, not with harsh words or criticism but with a love and acceptance that caused me deep reflection on the improvements I can make in my life to begin to reciprocate the immense unjudging and unwavering support she has shown me. Id. at 6 (B. Evans Ltr. at 6). Friends of Mr. Evans confirm the positive effect she has had on him. Ex. A at 253 (J. Stern Ltr.) ("I recall when Elizabeth and Billy returned from a months long camping trip

across the western United States, he displayed a new level of compassion in his demeanor, a strong

27 sense of intention with his actions, and a heightened desire to listen to and look at others with purpose. I

attribute these changes, at least in part, to Elizabeth's ability to have a positive impact on those around
 her.").

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III. CALCULATION OF THE SENTENCING GUIDELINES RANGE AND OBJECTIONS TO PRESENTENCE REPORT

"[A] district court should begin all sentencing proceedings by correctly calculating the applicable Guidelines range." *Gall v. United States*, 552 U.S. 38, 49 (2007). The Presentence Report ("PSR") calculates the Guidelines range as follows:

Base Offense Level	7
Loss Enhancement (§ 2B1.1(b)(1)(P)):	+ 30
Enhancement for Number of Victims (§ 2B1.1(b)(2)(A)(i)):	+ 2
Adjustment for Role in Offense (§ 3B1.1(a)):	+ 4
Total Offense Level	43
Criminal History	Category I

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PSR ¶¶ 102-113, 117. Based on a criminal history category of I and an offense level of 43, as well as the statutory maximum of 20 years for each count, the PSR calculates the Guidelines range as "960 months (80 years), which is essentially a life sentence for someone who is 38 years old." *Id.* ¶ 194.

18 Ms. Holmes objects to the PSR's Guidelines calculations with respect to each of the 19 enhancements applied to the PSR's calculation, and believes that additional downward adjustments are warranted here. *First*, as the PSR acknowledges, the offense level is primarily driven by the PSR's 20calculation of loss. As discussed in detail below, Ms. Holmes objects to that calculation, which is based 21 22 entirely on a spreadsheet provided by the government, for several reasons. See infra Section III(A). Second, Ms. Holmes objects to the enhancement for the number of victims because it is based on the 23 same flawed methodology as the loss calculation. See infra Section III(B). Third, Ms. Holmes objects 24 25 to the adjustment for the role in the offense as inconsistent with United States v. Holden, 908 F.3d 395, 402 (9th Cir. 2018), and the meaning of that enhancement. See infra Section III(C). Fourth, Ms. 26 27 Holmes should receive credit for her substantial acceptance of responsibility in this case, despite the fact

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that she has contested guilt. See infra Section III(D). Ms. Holmes captures her remaining objections to 2 the PSR in the attached Appendix.

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Ms. Holmes Objects to the PSR's Calculation of Loss.

The PSR relies on Section 2B1.1(b)(1)(P) of the Guidelines to increase the offense level on the basis of loss by 30 levels. PSR ¶ 105. As a matter of policy, Ms. Holmes objects to the application of § 2B1.1(b)(1) to increase her offense level in any amount. For the reasons discussed in more detail in Section IV(A)(5), below, loss is unhelpful in assessing the statutory sentencing factors.

8 Although the PSR calculates loss over Ms. Holmes' objection, its calculation is incorrect. The 9 PSR appears to calculate loss by using the total amount purportedly invested in Theranos by all of the 10 investors who participated in the so-called C-1 and C-2 fundraising rounds, based on a spreadsheet 11 provided by the government and apparently using a preponderance of the evidence standard.⁸ See PSR 12 ¶¶ 47, 105; PSR Addendum ¶¶ 7, 9, 16. This approach to calculating loss is incorrect and insufficient. 13 Because the loss calculation has an extreme effect on the ultimate offense level, extra care—and a 14 higher burden of proof-must be applied to the calculation. But regardless of whether a preponderance 15 or "clear and convincing" standard applies, the evidence does not meet it. Here, the calculation of loss 16 must consider the particulars of each individual investment and look beyond the total investment amount 17 to properly assess whether and to what extent loss has been proven, and whether (and, if so, the extent to 18 which) that loss was caused by the alleged fraudulent misrepresentations. It is not appropriate to assume 19 that every C-1 and C-2 investor in Theranos is properly included in the loss calculation. At trial, 20 witnesses associated with the investments charged in counts 3-8 testified about those investments, and 21 the jury reached a verdict only as to counts 6-8. While evidence as to certain other investors was 22 introduced at trial, none of the evidence introduced as to those other investors would even arguably 23 support a finding of fraud, much less meet the causation elements required for loss. Finally, as even the

⁸ This spreadsheet was not an exhibit in Ms. Holmes' trial and was not produced by the 26 government prior to its sentencing disclosures. It appears to be a document that was created by the government for sentencing purposes. 27

government appears to concede, calculating loss is complex in a case like this one, where the company
 (and therefore investments in it) indisputably had substantial value regardless of any fraud. As
 discussed in the sections that follow, the government has not and cannot meet its burden to prove loss.
 Accordingly, no loss enhancement should apply.

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1. Loss Must Be Proven by Clear and Convincing Evidence.

6 Given its dominant effect on the ultimate offense level and Guidelines range, the government 7 must show loss by clear and convincing evidence. "[C]lear and convincing evidence is required for 8 proof of disputed enhancements" when "the challenged sentencing factors [have] an extremely 9 disproportionate effect on [the defendant's] sentence relative to the offense of conviction." United 10 States v. Jordan, 256 F.3d 922, 927, 929 (9th Cir. 2001). The Ninth Circuit has articulated a non-11 exhaustive six-factor test to determine when "due process may require the government to demonstrate 12 facts underlying disputed enhancements by clear and convincing evidence." United States v. Lonich, 23 F.4th 881, 910 (9th Cir. 2022).⁹ Key among those factors are the last two, which focus on the increase 13 14 in the number of offense levels caused by the disputed enhancements, and the increase in the sentence 15 caused by the disputed enhancements. See id. at 911-12. Those concerns militate in favor of applying 16 the higher standard. The PSR's Guidelines calculation is driven primarily by the loss amount, which 17 more than quintuples the offense level, and leads to a staggering increase to the Guidelines range.

⁹ "In determining when the government must meet a clear and convincing standard of proof," the Ninth Circuit looks to the "totality of the circumstances." *Lonich*, 23 F.4th at 910. The "six non-exhaustive factors" that have been articulated are:

⁽¹⁾ whether the enhanced sentence falls within the maximum sentence for the crime alleged in the indictment; (2) whether the enhanced sentence negates the presumption of innocence or the prosecution's burden of proof for the crime alleged in the indictment; (3) whether the facts offered in support of the enhancement create new offenses requiring separate punishment; (4) whether the increase in sentence is based on the extent of a conspiracy;
(5) whether the increase in the number of offense levels is less than or equal to four; and
(6) whether the length of the enhanced sentence more than doubles the length of the sentence authorized by the initial sentencing guideline range in a case where the defendant would otherwise have received a relatively short sentence.

Id. at 910-11 (quoting Jordan, 256 F.3d at 928) (internal quotation marks and alterations omitted).

²⁸ MS. HOLMES' SENTENCING MEMORANDUM CR-18-00258 EJD

In *Lonich*, the Ninth Circuit noted that the question of which standard applies becomes more 1 2 difficult in conspiracy cases because it can be difficult to determine what conduct was part of the 3 conviction. 23 F.4th at 913. That difficulty is present here. Count 1 charged an investor conspiracy lasting from 2010 to 2015, but Ms. Holmes was only convicted of three of the six individual wire fraud 4 5 counts that went to the jury, all of which were for investments made in 2014. Additionally, the PSR appears to calculate loss based on a government-created spreadsheet of C-1 and C-2 investors, but the 6 7 evidence at trial was significantly more limited. There was no evidence as to why the vast majority of 8 the investments the government seeks to include in the loss amount (\$517.8 million) were made—even 9 though, as discussed below, each investor's investment experience was different. Because of these questions, as well as the fact that the application of this enhancement has such a dramatic effect on the 10 offense level, the government must meet a clear and convincing standard in order to prove a loss 11 12 amount for consideration at sentencing. The PSR's use of a preponderance standard is erroneous. Even 13 under that lower standard, however, the government has not proven loss, as discussed below.

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2. Each Investor and Associated Loss Must Be Considered Separately.

15 The PSR's loss calculation rests on the assumption that every investment listed in a government-16 created spreadsheet of purported C-1 and C-2 investments during a set time period was the result of the 17 offense conduct. Basing loss on such an assumption is factually and legally erroneous in this case. 18 Instead, a transaction-by-transaction inquiry is required to determine whether the transactions identified 19 were but-for and proximately caused by the offense. The information provided by the government is not 20 sufficient to make that showing (even under the lower preponderance standard) for the transactions 21 referenced on the spreadsheet on which the PSR's loss calculation relies.

22 As a matter of law, the government must prove that the offense conduct—here, wire fraud with 23 respect to investor victims—was the but-for and proximate cause of the loss. Lonich, 23 F.4th at 916 24 ("The term 'resulted from' establishes a causation requirement, which includes both cause-in-fact (but-25 for causation) and proximate cause. . . . These basic causation requirements apply to loss 26 enhancements." (internal quotation marks omitted)). To prove "but-for" causation where fraudulent 27

investments are concerned, the government generally must show that an investor relied on fraudulent

information in making the investment, see United States v. Stein, 846 F.3d 1135, 1153 (11th Cir. 2017) 1 (assessing but-for causation for loss under § 2B1.1(b)(1) for a securities fraud conviction), or, put 2 3 differently, that the fraud was material to the particular investment argued to constitute loss, see United States v. Executive Recycling, Inc., 953 F. Supp. 2d 1138, 1146 (D. Colo. 2013) (assessing loss in the 4 5 context of a wire fraud conviction). Intervening causes, meanwhile, can lead to the failure to prove proximate cause. Lonich, 23 F.4th at 917-18; United States v. Hicks, 217 F.3d 1038, 1048-49 (9th Cir. 6 2000). Where the government fails to produce sufficient evidence to show proximate or but-for 7 8 causation for asserted loss amounts, a sentence based on those loss amounts cannot stand. Lonich, 23 9 F.4th at 916.

The government has not proven that the fraud was a but-for or proximate cause of any loss.
There are at least two issues with the PSR's approach based on the particular facts and circumstances of
this case:

First, this is a case where the circumstances of each individual investment were different. The PSR erroneously reasons that at trial the evidence showed that "the C-1 and C-2 investors received the same information from Theranos before they invested[.]" PSR Addendum ¶ 7. This is simply incorrect. E.g., 9/2/22 Hr'g Tr. 28:15-21 (gov't arguing different investors heard different information). For example, none of the C-1 investors who testified at trial were provided financial models, while the C-2 investors whose representatives testified at trial were provided such models.

19 The trial record made clear that this is *not* a case where all investors received the same information or spoke to the same people, nor did their investments happen at the same time. Some 20 investors spoke with Ms. Holmes, some didn't. Some investors received financial models, some didn't. 21 22 Some investors received demonstrations of the proprietary technology that Theranos was developing, 23 some didn't. Some conducted extensive due diligence, some didn't. Some invested multiple times over many years, some invested once. Some anticipated forming a broader business or strategic partnership 24 25 with Theranos, some didn't. Some had detailed and privileged information about the company because 26 they were members of the Board of Directors, some didn't. Because the circumstances of each investment were different, and because different investors received different information, the 27

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Case 5:18-cr-00258-EJD Document 1655 Filed 11/19/22 Page 40 of 82

government has not shown and cannot show that each of the transactions that it has identified, much less 1 2 all transactions from 2010 through 2015, were part of a conspiracy to defraud investors. The jury's 3 verdict confirms this understanding. While the jury found Ms. Holmes guilty of Counts 6, 7, and 8 each a specific and unique C-2 transaction that took place in 2014—the jury was unable to reach 4 5 agreement on Counts 3, 4, and 5, which were separate C-1 transactions with different individuals under different circumstances that all took place in 2013. See Executive Recycling, Inc., 953 F. Supp. 2d at 6 7 1146 ("The fact that the jury only convicted Defendants on half of the fraud counts shows that it 8 carefully considered the evidence related to each Count and the customer named in that Count and, in 9 the process, clearly determined that the Government's evidence was adequate with respect to some customers, and lacking with regard to others."). In situations like this one, each transaction must be 10 considered on its own merits. 11

12 To be clear, even the convictions for wire fraud do not satisfy this standard. Unlike its current 13 burden in connection with proving loss under § 2B1.1, at trial the government was not required to prove 14 causation or reliance as to any particular investment in order to prove wire fraud. United States v. 15 Holmes, No. 5:18-CR-00258-EJD-1, 2021 WL 2044470, at *30 (N.D. Cal. May 22, 2021) ("Causation is 16 not an element of wire fraud that the Government must prove."); Holmes 10/26/21 Tr. 4609:12 ("We 17 don't need to prove reliance.") (gov't argument). Additionally, at trial, the government did not 18 introduce *any* evidence regarding the vast majority of the individuals and entities listed on the 19 government's spreadsheet-much less information about the circumstances of their investment, any representations made to them, or what they relied on in choosing to invest. 20

A review of the government's spreadsheet itself makes plain the problem with assuming that any C-1 or C-2 investor was a person who suffered loss as a result of a material misstatement by Ms. Holmes. As noted, the proof at trial addressed only a handful of the investments made by particular outside investors. But the government's spreadsheet includes investments from persons with substantial knowledge about the company, including board members and outside counsel. The spreadsheet identifies investments from entities associated with at least four Theranos Board Members—Richard Kovacevich, David Boies, Riley Bechtel, and Henry Kissinger. None of these individuals testified, and

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no evidence was presented regarding the circumstances of their investments. But all of these individuals 1 had access to special information, including privileged information, that was not available to other 2 investors. Indeed, David Boies and his law firm Boies, Schiller & Flexner LLP, represented Theranos 3 and Ms. Holmes as outside counsel (including in intellectual property matters, such as efforts to protect 4 Theranos' trade secrets, and in interactions with regulators).¹⁰ While the trial record contains passing 5 references to certain other investors, such as Andreas Dracopoulos, there was no evidence whatsoever 6 about why either of those individuals chose to invest. And some investors on the government's list 7 8 made or offered to make additional investments in the company well after the alleged fraud was 9 revealed, such as Mr. Bechtel and Cox Investment Holdings, Inc.

10 Second, the nature of the investment opportunity further explains why a specific showing as to each investor is necessary. Theranos was a start-up company with limited operating and commercial 11 12 history. It also was a privately held company with securities that never traded on a public market and it 13 did not issue market-wide statements. Investors expressly acknowledged at the time of their investment 14 that the opportunity was unique and speculative in nature, that there were serious risks of investing in 15 the company, that the financial projections were speculative and unreliable, and the investors were 16 themselves sophisticated actors. See, e.g., TX 3530 at 7-8, §§ 4.3, 4.4, 4.5, 4.6. It cannot be assumed 17 that all of the sophisticated, wealthy investors who knew about these risks but proceeded to invest 18 anyway would say that they relied on projections they previously affirmed in writing were inherently speculative—if they received financial projections at all. As recent events have revealed, the reasons 19 why sophisticated investors invest in an enterprise may have nothing to do with the representations 20 made by a company, and instead be driven "more by vibes and grievances than due diligence." Charlie 21 Warzel, "Elon Musks's Texts Shatter the Myth of the Tech Genius," The Atlantic (Sept. 30, 2022)¹¹; see 22 23 id. ("Looking at these texts, it seems much easier to understand Andreessen Horowitz's recent \$350

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¹⁰ Whether the amount attributed to Boies Schiller is even appropriately considered an investment is a further question. The firm was paid for its legal work in part through shares and in part through cash.

 ^{27 &}lt;sup>11</sup> Available at https://www.theatlantic.com/technology/archive/2022/09/elon-musk-texts-twitter-trial-jack-dorsey/671619/.
 28 ¹¹ Available at https://www.theatlantic.com/technology/archive/2022/09/elon-musk-texts-twitter-

MS. HOLMES' SENTENCING MEMORANDUM CR-18-00258 EJD

Case 5:18-cr-00258-EJD Document 1655 Filed 11/19/22 Page 42 of 82

million investment in WeWork founder Adam Neumann's new real-estate start-up, or [Samuel]
 Bankman-Fried's admission that most venture-capitalist investments are not 'the paragon of efficient
 markets' and driven primarily by FOMO and hype. 'Like, all the models are made up, right?' he
 infamously told *Bloomberg* last April.").

Rather than relying on a government-created spreadsheet, the loss calculation requires a showing
that each investor the government contends suffered loss received and relied on the fraudulent
misrepresentations alleged in the indictment. If the government fails to make that showing, the loss
cannot be counted. The government did not present sufficient information to the Office of Probation to
make that showing, and the trial record does not supply it.

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3.

The Entirety of Each Investment Is Not An Appropriate Measure of Loss and the Government Has Not Shown a Reasonable Estimate by Clear and Convincing Evidence or a Preponderance of the Evidence.

12 Ms. Holmes also objects to calculating loss based on the entire amount invested by any purported 13 victim-investor, as the PSR does, because the investments retained considerable and indisputable value 14 well after the purported fraud was revealed. This changes the nature of the analysis under § 2B1.1. 15 "The Guidelines do not present a single universal method for loss calculation under § 2B1.1—nor could 16 they, given the fact-intensive and individualized nature of the inquiry." United States v. Zolp, 479 F.3d 17 715, 718 (9th Cir. 2007). The law distinguishes between the loss calculation involving investments in a 18 "sham" company, in which a security is "literally worthless after the fraudulent scheme is exposed," and 19 the loss calculation involving an "otherwise legitimate company." Id. at 719. In the case of an 20 otherwise legitimate company, "because the stock continues to have residual value after the fraudulent 21 scheme is revealed, the court may not assume that the loss inflicted equals the full pre-disclosure value 22 of the stock; rather, the court must disentangle the underlying value of the stock, inflation of that value 23 due to the fraud, and either inflation or deflation of that value due to unrelated causes." Id.; see also 24 United States v. Hussain, No. 16-cr-00462-CRB-1, 2019 WL 1995764, at *4-6 (May 6, 2019) (analyzing 25 complexity of calculating loss for a wire fraud related to investments in an otherwise legitimate 26 company that was overvalued as a result of the fraud).

27 28 This case fits into the latter type: Unlike a Ponzi scheme, Theranos was a real company—a fact which the government does not dispute. *See* Holmes 9/8/21 Tr. 553:7-8 (gov't opening). It developed valuable, innovative technology (assays, hardware, and software), including inventions and advancements that were recognized as innovative by the United States Patent & Trademark Office. It had real commercial relationships and provided real services to customers. The investments were not used to line Ms. Holmes' pockets or those of anyone else; to the contrary, the investments went toward the company's mission to make health information more accessible.

For these reasons, it would be legally incorrect to assess the loss as the entire amount invested in this case, as the PSR does. *See Zolp*, 479 F.3d at 719. Instead, the Guidelines suggest an appropriate measure can be "[t]he reduction that resulted from the offense in the value of equity securities or other corporate assets." U.S.S.G. § 2B1.1 cmt. n.3(C)(v). Calculating loss in such a circumstance is complex, even impossible to do with any reasonable degree of certainty at this point given the backward-looking, assumption-driven nature of such an analysis. But there are indicators of substantial value in the company.

15 Theranos developed a highly valuable intellectual property portfolio over time. As of the second 16 half of 2017, the value of that intellectual property was assessed by multiple outside parties to be at least 17 in the hundreds of millions of dollars, and potentially over one billion dollars. In 2017, an outside law 18 firm, Perkins Coie, performed an analysis of Theranos' patent portfolio to "see if there was an opportunity to use it for licensing and whether the portfolio had significant value." Ex. A at 82 (T. 19 Carroll Ltr. at 1). The lawyer who led that charge explains the breadth of the portfolio in both number of 20 assets and different technologies: the team "discovered that Theranos had more than 1200 patent assets 21 22 across the globe" and "a vast number of patents in the Theranos patent portfolio were directed to 23 invention other than a testing machine," including real-time influenza detection and patents "that solved technical problems related to aspects of blood testing." Id. at 82, 83 (T. Carroll Ltr. at 1, 2). "Theranos 24 25 had scores of inventions like these that were valuable on their own, even if they were never successfully 26 aggregated into a full and accurate testing machine." Id. at 83 (T. Carroll Ltr. at 2). Ultimately, Perkins 27 Coie prepared a series of analyses, in the form of PowerPoint presentations, which valued the potential

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Case 5:18-cr-00258-EJD Document 1655 Filed 11/19/22 Page 44 of 82

licensing opportunities for various subsets of patents and various potentially infringing companies. One
 such presentation dated August 2017 showed licensing opportunities at between \$700 and \$800 million
 based on a small subset of Theranos' large asset portfolio and the products of eight companies. Ex. G at
 46 (Overview of Theranos' IP Assets and Near-Term Licensing Opportunities). Notably, all of the
 patents assessed in that presentation were issued by the end of 2014. *Id.* at 9-15.¹²

6 An outside counterparty also valued Theranos' patent portfolio at several hundred million 7 dollars. In November 2017, with Theranos in distress after two years of unrelenting public criticism, 8 Fortress Credit Corporation agreed to give a loan of \$100 million in cash to Theranos, secured by the value of the patent portfolio. Ex. I (Term Sheet) at Dynasty003471-72. Fortress had done its own 9 independent due diligence on the patent portfolio and "believe[d] that Theranos' patents are 10 foundational patents in the POC [Point of Care] field." Ex. J (Fortress investment analysis) at SEC-11 12 DEPO-004683. A Fortress executive testified under oath in a separate proceeding that Fortress would 13 have expected to receive a return on its investment in the event Theranos defaulted and Fortress took 14 ownership of the patents, Ex. K (E. Levy Dep. Tr.) at 29:12-31:14; the return targeted by the Theranos-15 related investment fund was "two to three times the money invested at a rate of return of about 25 16 percent," id. at 90:2-24; and Fortress "will not do the deal unless it meets certain return criteria," id. at 92:24-25. See also Ex. A at 74 (F. Bonanni Ltr. at 3). Other outside analyses also indicated that 17 18 Theranos' device had the potential to generate a substantial return. Ex. A at 261 (D. Tschirhart Ltr. at 1) ("Near the end, we had an independent third party consultant evaluate the business case for the machine 19 as it actually was and they concluded it would generate a billion dollars in revenue in the first ten 20 21 years.").¹³ In fact, "[t]he technology and clinical concepts that Theranos[] championed are becoming a reality today." Ex. A at 128 (Dr. Evans Ltr. at 1).

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¹² Perkins Coie completed analyses that included additional patents and additional potentially infringing products identified an even greater potential revenue amount. *See* Ex. H (2018 CIM with cover email cc'ing Perkins Coie), at Slides 83-103.

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 &</sup>lt;sup>13</sup> The C-2 investors, including RDV, approved the Fortress loan from Theranos' side in November 2017.
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Theranos also had hundreds of millions of dollars cash on hand several months after the alleged
fraud was revealed. On April 17, 2016, six months after the *Wall Street Journal* had begun publishing
articles on Theranos and two and half months after CMS's report on Theranos' laboratory became
public, Theranos had over \$367 million in cash on hand. TX 5172 at col. JQ, row 16. After Walgreens
announced it was terminating the relationship with Theranos in June 2016, Ex. L, Theranos still had
over \$334 million of cash on hand, TX 5172 at col. JZ, row 16.

7 The government acknowledges both the complexity of assessing the company's value and the 8 substantial value in the company through its commission of an expert report ("the Saba Report") that 9 argues the total loss to all C-1 and C-2 investors as somewhere between \$237 and \$316 million. See Ex. M (Saba Report) ¶ 15, 120-21. In coming to that opinion, the Saba Report argues that the true 10 value of the C-1 and C-2 investments at the time they were made was 58% to 71% of what investors 11 12 paid for them-far from a worthless investment. See id. In other words, even under the government-13 commissioned analysis, Theranos was an extremely valuable company and a majority of that value was 14 not the product of fraud. (The PSR does not address the Saba Report, though it was provided to the 15 Probation Officer and was discussed in Ms. Holmes' objections to the Draft PSR.)

16 But even a cursory read of the Saba Report makes clear that it still overstates the loss. The 17 Report's effort to assign a value to the investments is flawed, inherently speculative, and unreliable. 18 The Report does not establish a "reasonable estimate of the loss" by clear and convincing evidence or 19 even a preponderance of the evidence such that the government can meet its burden. § 2B1.1 cmt. n.3(C). Several examples highlight why that is the case. *First*, the use of a loss range of nearly \$100 20 21 million—which cuts across $\S 2B1.1(b)(1)$ loss levels—cannot reflect a reasonably determined loss 22 amount. See Hussain, 2019 WL 1995764, at *5 (rejecting government's proposal of a loss range as 23 sufficient because "a range is not an amount" and the "staggeringly large range" of a billion dollars does not meet the standard for a loss "reasonably ... determined"). That the Saba Report could not reach a 24 25 specific amount confirms the futility of this project. Second, the valuation of a private company with 26 limited operational history is inherently theoretical and speculative. That is demonstrated by the Saba 27 Report, which considers a variety of potential approaches and lacks a single defined and accepted

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Case 5:18-cr-00258-EJD Document 1655 Filed 11/19/22 Page 46 of 82

methodology. The constraints on valuing a non-public start-up company is not a problem unique to 1 2 Theranos, but is inherent within the entire venture capital industry. See Gompers et al., How Do Venture 3 Capitalists Make Decisions?, 135 J. Fin. Econ. 169, 170-71 (2020) ("The paucity of historical operating information and the uncertainty of future cash flows makes VCs' investment decisions difficult and less 4 5 like those in the typical setting taught in MBA finance curricula."). Third, the report overstates the loss because it does not include the value of intellectual property that could be achieved through licensing. 6 7 See supra pp. 36-37 (discussing value of patent portfolio). Fourth, the report calculates the loss to 8 investors as a whole when that must be addressed on an investor-by-investor basis, as discussed above.

9 To be clear, it is the government's burden to prove loss, and *not* Ms. Holmes' burden to disprove it. Even courts that have expressed a view that a defendant's conduct was "brazen" have declined to 10 find loss where the government has failed to prove it. For example, in United States v. Block, the court 11 12 noted that the defendant, the Chief Financial Officer of a publicly traded real estate investment trust, had 13 "brazenly" inflated values "by simply making up numbers to plug a gap that resulted from what would 14 have been a proper calculation of the company's numbers." Dkt No. 169 at 68, No. 16-cr-595 (S.D.N.Y. 15 Dec. 4, 2017) (Sentencing Tr.). The court nevertheless determined that the government had failed to 16 prove the \$300 million loss it sought, declined to apply the loss enhancement, and gave the defendant an 17 18-month sentence in view of, among other things, the defendant's personal circumstances, the complex 18 circumstances surrounding the offense, and the court's view that a longer sentence would not 19 meaningfully affect general deterrence. Id. at 68-72.

Because total invested amount is an inappropriate measure of loss, and because the government
has failed to meet its burden of proof under an alternative reasonable estimate, another approach must be
considered.

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4. Gain To Ms. Holmes As An Alternative Measure

Where loss amount cannot be reasonably estimated, the Guidelines indicate that the proper measure is gain to the defendant from the offense. U.S.S.G. § 2B1.1 cmt. n.3(B); *see Hussain*, 2019 WL 1995764, at *7 (calculating gain as the premium on the stock that the defendant owned and sold). Here, the appropriate measure of gain is \$0. Ms. Holmes never sold any of her equity in the company. Ms.

Holmes received a total of \$1,546,025.37 in salaried compensation over the six years from 2010 through
2015. See Ex. N (E. Holmes Interrogatory Resp. in *Partner Investments, L.P. v. Theranos, Inc.*) at
No. 8. But as the *Hussain* court pointed out, salaried compensation in a case where the company was
engaged in legitimate business activities presents challenges because the Court may only include gain
that "resulted from the offense." U.S.S.G. § 2B1.1 cmt. n.3(B); *Hussain*, 2019 WL 1995764, at *6-7.
Here, the government has not proven and cannot prove that Ms. Holmes' salary resulted from the
offense conduct as opposed to the legitimate activities of Theranos.

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If the Court Accepts the PSR's Calculation of Loss, A Downward Departure is Warranted Under Section 2B1.1, Application Note 21(C).

If the Court finds that the PSR's calculation of loss is correct, Ms. Holmes moves for a downward departure based on the fact that the offense level resulting from the application of this Guideline "substantially overstates the seriousness of the offense." U.S.S.G. § 2B1.1 cmt. n.21(C). In his recommendation, the Probation Officer notes: "It is the undersigned's opinion that the guideline range is drastically overrepresented based solely on the amount of financial loss, which carries a 30-level increase." PSR Sentencing Recommendation at 2. For that reason, as well as the reasons described in Sections III(A)(1) and IV(A), many complex circumstances surround the offense conduct which causes the PSR's loss calculation to overstate the seriousness of the offense. Indeed, applying *all* of the other enhancements the PSR applies, but not the loss enhancement, the resulting offense level is 13, which puts the resulting Guidelines range at 12-18 months.

B.

Ms. Holmes Objects to the Calculation of the Number of Victims.

The PSR erroneously includes a 2-level increase pursuant to § 2B1.1(b)(2) based on the number of alleged victims. PSR ¶ 106. "The Guidelines do not ... allow a district court to 'estimate' the number of victims to enhance a sentence under § 2B1.1(b)(2)." *United States v. Showalter*, 569 F.3d 1150, 1160 (9th Cir. 2009). A "victim" under § 2B1.1 is a person (including corporations) "who sustained any part of the actual loss determined under subsection (b)(1)." § 2B1.1 cmt n.1.

For the reasons the government cannot show loss pursuant to § 2B1.1(b)(1), it also cannot prove that there were ten or more "victims" as defined by § 2B1.1. The Addendum to the PSR explains that its

calculation of the number of victims relied on the same spreadsheet discussed above. See supra Section 1 2 III(A)(2); PSR Addendum ¶ 7. For the reasons discussed above, that approach is flawed. Even 3 assuming that every victim impact statement provided by an individual or entity who invested between 2010 and 2015 satisfies the elements for proving a "victim"—which it does not—only eight such entities 4 5 that are included on the government's spreadsheet have submitted statements claiming to be victims: PFM, RDV Corp., the Shultz Great Grandfather Trust, Hall Group, Alan Eisenman, Cox Investment 6 7 Holdings, Inc., Crofton Capital, and Gordon Family Trust. Because § 2B1.1 defines a victim as a person 8 who suffered actual loss pursuant to § 2B1.1(b)(1), Ms. Holmes objects to any calculation of victims 9 that does not meet the standards discussed above with respect to loss.

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С.

Ms. Holmes Should Not Receive a 4-Level Increase for Her Role.

Ms. Holmes objects to the PSR's upward adjustment of her offense level based on her role in the 12 offense pursuant to U.S.S.G. § 3B1.1. PSR ¶ 108; PSR Addendum ¶ 22. This adjustment only applies if 13 the defendant "was an organizer or leader of a criminal activity" and that criminal activity "involved five 14 or more participants or was otherwise extensive." U.S.S.G. § 3B1.1(a). Theranos was not a criminal 15 enterprise, the PSR has not identified more than two participants who were at most co-equals, and the 16 criminal activity was not "otherwise extensive."

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1. Ms. Holmes Was Not a Leader of "Criminal Activity."

18 Section 3B1.1 cannot be applied merely because Ms. Holmes was the CEO of or had decision-19 making authority within *Theranos*. As the Guideline makes clear, the leadership position at issue in the 20 rule is leadership in criminal activity, not merely leadership in a company. U.S.S.G. § 3B1.1(a) (stating 21 adjustment may apply to "organizer or leader of a criminal activity"). "[T]o sustain a finding that a 22 defendant was an organizer or a leader, there must be evidence that the defendant exercised some 23 control over others involved in the commission of the offense [or was] responsible for organizing others 24 for the purpose of carrying out the crime." United States v. Avila, 95 F.3d 887, 889 (9th Cir. 1996) 25 (emphasis added) (internal quotation marks omitted). There is no dispute Theranos was a "real 26 company" with legitimate commercial activities. Holmes 9/8/21 Tr. 553:7-8 (gov't opening). The fact 27 that Ms. Holmes had some decision-making authority for aspects of the *company* or that she was a 28

hands-on CEO of the *company* is not a sufficient basis to apply the adjustment. *See* PSR Addendum ¶ 22 (explaining that the enhancement was applied because Ms. Holmes was "a 'hands-on' CEO who was always present at the company, and Ms. Holmes even said, 'The buck stopped with her.'").

2. The Adjustment Does Not Apply Because Ms. Holmes Was Co-Equal or Less Responsible Than Her Co-Defendant, the Other "Participant."

Additionally, Ms. Holmes did not have a higher level of responsibility than other participants in the alleged crime, i.e., Mr. Balwani.¹⁴ "This adjustment is included primarily because of concerns about relative responsibility." U.S.S.G. § 3B1.1 cmt. background. Thus, where the record demonstrates that the criminally responsible participants were "co-equal," the adjustment does not apply. United States v. Holden, 908 F.3d 395, 402 (9th Cir. 2018) (finding organizer adjustment was inapplicable when record demonstrated that participants were "co-equal"). While at some points the government has taken the position that Ms. Holmes and Mr. Balwani "controlled Theranos as equals," Holmes 9/8/21 Tr. 552:23-553:5 (gov't opening), in its case against Mr. Balwani it argued that Mr. Balwani had outsized influence on Ms. Holmes, Balwani 6/24/22 Tr. 7652:9-17 (gov't rebuttal), and Mr. Balwani was convicted of every count in the applicable indictment. It is undisputed that there were areas of the company for which Mr. Balwani and not Ms. Holmes had primary responsibility, such as the Clinical Laboratory Improvement Amendments ("CLIA") laboratory, the Walgreens relationship, and the financial projections that went to the investors—all of which were central to the government's allegations. Under the government's positions at *either* trial, the adjustment does not apply to Ms. Holmes. Without sufficient evidence that Ms. Holmes had a higher level of responsibility for criminal activity such that she could be said to be a leader, the adjustment cannot apply. For this reason, the alternative identified in the Addendum to the PSR—that the two-level adjustment under § 3B1.1(c) might apply instead—is also not supported by the record. PSR Addendum $\P 22.^{15}$

- ¹⁴"A 'participant' is a person who is criminally responsible for the commission of the offense,
 but need not have been convicted. A person who is not criminally responsible for the commission of the offense . . . is not a participant." U.S.S.G. § 3B1.1 cmt. n.1. The PSR does not identify any other "participant" in the crime beyond Mr. Balwani.
- ¹⁵ Additionally, Ms. Holmes neither profited from the offense nor is at risk of committing an
 offense in the future, both concerns expressed by the comments to the Guidelines. *See* U.S.S.G. § 3B1.1
 MS. HOLMES' SENTENCING MEMORANDUM
 CR-18-00258 EJD

3. The "Otherwise Extensive" Provision Does Not Apply.

The PSR's conclusion that the fraud "involved 5 or more participants or was otherwise extensive" is based on three potential arguments: (1) the number of people employed by and scope of activities of the company, (2) the size of the investments, and (3) the number of victims. See PSR \P 108; PSR Addendum ¶ 22. As to the first, the PSR errs because it relies on the activities of a legitimate enterprise, as opposed to focusing on the *criminal* activity (alleged misstatements to investors), and identifies no participant in that activity other than Ms. Holmes and Mr. Balwani. The second and third arguments, meanwhile, present a number of issues. For one, finding the conduct "otherwise extensive" based on the loss and number of victims infects this enhancement with the problems identified above in Sections III(A) and (B). Additionally, even if the number of victims and the loss amount were correct (which they are not), using the number of victims or loss amount to justify the adjustment would constitute double-counting. The PSR already includes adjustments for both the loss amount and the number of victims involved in the crime. Moreover, even if those factors could be considered, they should not be the sole basis for applying the adjustment because neither of those factors have anything to do with relative responsibility—the purpose of this adjustment. See U.S.S.G. § 3B1.1 cmt. background ("Th[e] adjustment [of § 3B1.1] is included primarily because of concerns about relative responsibility.... [I]t is also likely that persons who exercise a supervisory or managerial role in the commission of an offense tend to profit more from it"); see also United States v. Egge, 223 F.3d 1128, 1133 (9th Cir. 2000) ("Section 3B1.1 attempts to apportion relative responsibility where an offense involves multiple participants" (emphasis added)).

D.

Ms. Holmes Should Receive Credit for Acceptance of Responsibility Pursuant to U.S.S.G. § 3E1.1(a).

Ms. Holmes should receive a two-level credit for "clearly demonstrat[ing] acceptance of responsibility for [her] offense." U.S.S.G. § 3E1.1(a); see PSR ¶ 112; PSR Addendum ¶ 24. Ms. Holmes maintains her innocence with respect to fraud and exercised her Constitutional rights-an

cmt. background ("[I]t is also likely that persons who exercise a supervisory or managerial role in the commission of an offense tend to profit more from it and present a greater danger to the public and/or are more likely to recidivate.").

MS. HOLMES' SENTENCING MEMORANDUM CR-18-00258 EJD

exercise that was plainly warranted given her acquittal on Counts 2 and 10-12 and the lack of a
 conviction on Counts 3, 4, and 5. But both before she was charged and repeatedly during the trial, she
 made extensive efforts to uncover and acknowledge responsibility for errors made by her or the
 company, including with respect to issues the government has argued were criminal.

In response to criticisms that began in late 2015, Ms. Holmes embarked on a broad, resourceintensive effort to bring outside voices into Theranos and to identify, acknowledge, and correct errors or
missteps, and restructure the company as appropriate. Testimony, documents, and letters to the Court
from reform-era Board members, employees, and consultants describe some of these efforts. *See, e.g.*,
Ex. A at 97 (T. Cooper Ltr. at 2).

10 **Reconstituted Board:** In 2016, Mr. Balwani left the company and Ms. Holmes reconstituted the Board of Directors in response to criticisms that its members lacked appropriate knowledge. The 11 12 new Board included physician and former head of the CDC Dr. William Foege (who had been on 13 the Board previously); former Amgen senior executive Dr. Fabrizio Bonanni, who had expertise 14 in medical devices; and technology industry executive Daniel Warmenhoven, who was asked to 15 join the Board to help Ms. Holmes by a Board member who was retiring for medical reasons. 16 All three members of that reconstituted Board of Directors have written letters in support of 17 leniency. Ex. A at 72 (F. Bonanni Ltr.), 135 (W. Foege Ltr.), 269 (D. Warmenhoven Ltr.).

- 18 Scientific and Technical Advisory Boards: Ms. Holmes invited into the company new 19 advisory boards whose members consisted of outside experts. Dr. Susan Evans (no relation to 20 Billy Evans), who has spent her career in diagnostics product development and technology 21 assessment, was a member of the new Scientific and Medical Advisory Board. She observes that 22 "when the SAB was created in 2016 to help the company, I found a CEO who took ownership of 23 previous missteps and shortfalls, and genuinely sought advice, input and guidance from 24 advisors." Ex. A at 128 (Dr. Evans Ltr. at 1); see Ex. A at 136 (W. Foege Ltr. at 2) ("[Ms. 25 Holmes] had outside experts spend time at the Theranos facility. She allowed them to talk to 26 anyone. She allowed those experts to inspect the hardware, and make suggestions."). Dr. John 27 Moalli, who was a member of the Technical Advisory Board (also formed around the same
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time), notes: "As a member of the TAB, I found that Elizabeth received advice openly and was constantly looking to fix things she recognized had been done incorrectly." Ex. A at 203 (J. Moalli Ltr. at 2).

New, Experienced Staff Focused on Compliance and Quality Control: "Elizabeth hired additional staff with extensive diagnostic industry experience in engineering, assay development, and quality systems, and worked to establish a culture based on a quality management system." Ex. A at 128 (Dr. Evans Ltr. at 1); see Ex. O (July 2016 Press Release). One of those consultants observes: "During my committee involvement, Ms. Elizabeth Holmes was thoroughly engaged, wanted to learn and make improvements at Theranos. She embraced our recommendations, worked hard to implement the recommendations, and understood what went wrong previously. I felt her openness to continuous improvement was adopted within the company and was extremely helpful in making rapid changes and continuous improvements." Ex. A at 265 (M. VanTrieste Ltr.); see also Ex. A at 187 (B. Liptzin Ltr.) ("She did not avoid difficult conversations and demonstrated an understanding and care about doing the right thing."). Dr. Bonanni reiterates: "As the board committee and the newly hired executives developed the quality system and compliance program, Elizabeth Holmes absorbed the relative concepts rapidly, as a sponge, and became their champion serving as a role model for the rest of the organization." Ex. A at 73 (F. Bonanni Ltr. at 2).

- 19 New, Experienced Laboratory Directors to "Turn Over Rocks": Theranos hired new 20 laboratory directors, Dr. Kingshuk Das and Dr. Donald Tschirhart. Ms. Holmes gave them the 21 imprimatur to "turn over rocks," to look into errors and make any and all needed corrections, 22 with her full support—reporting, for the first time in the company's history, to Ms. Holmes 23 directly. Holmes 11/10/21 Tr. 5933:18-20, 5996:12-18, 5997:1-3 (testimony of laboratory director Dr. Das). Ultimately, Theranos shut down its clinical laboratory business and refocused 24 25 its work on the small sample technology.
 - **Openness with the Scientific Community:** Theranos made efforts to explain and share its inventions with the scientific community. In August 2016, Ms. Holmes presented the miniLab to

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a hostile audience at the American Association of Clinical Chemistry conference. TX 7673A.¹⁶ Additionally, Theranos worked to publish papers on its research. E.g., TX 7695, TX 7717, TX 7718, TX 7719.

4 Ms. Holmes' recognition, acknowledgement, and assumption of responsibility of her mistakes as 5 Theranos' CEO were central to her reform efforts. She took public personal responsibility for Theranos' failings as early as April 2016—more than two years before her indictment—in an interview with NBC 6 News correspondent Maria Shriver.¹⁷ She told Ms. Shriver: "I feel devastated that we did not catch and 7 fix these issues faster." And when asked directly by Ms. Shriver what she held herself responsible for, 8 Ms. Holmes said: "I'm the Founder and CEO of this company. Anything that happens in this company 9 is my responsibility at the end of the day." She did the same in her SEC testimony, before her 10 indictment in this case. See Ex. T (SEC Tr.) at 347:12-13 ("I was the CEO of the company, so I take responsibility for this company."); *id.* at 353:12-13, 353:19-22, 620:22-621:2, 689:19-20, 697:2-3. 12

13 Ms. Holmes also did the same on the witness stand in this case. See Holmes 11/30/21 Tr. 14 8005:13-15 (testimony on cross-examination) ("Q. And you take responsibility for the company; is that 15 your testimony? A. I do."). For example, with respect to the company's response to the *Wall Street* 16 Journal's 2015 investigation, Ms. Holmes told the jury repeatedly that she wishes Theranos had handled its interactions with specific employees, and the entire response to the *Wall Street Journal*'s inquiries, 17 18 differently. Holmes 11/30/21 Tr. 7973:17-18, 7978:23-25, 7998:13-15 (testimony of E. Holmes); see also id. at 8136:18 ("There are many things that I wish I did differently."). Ms. Holmes also did not shy 19 away from personally acknowledging her role in conduct that the government questioned. For example, 20 with respect to pharmaceutical reports, Ms. Holmes testified about her own role in affixing pharma 21 22 company logos to the reports, and also acknowledged she wishes she had handled it differently. *Id.* at 23 8140:13, 8155:5-7; see Holmes 11/23/21 Tr. 7479:2-10.

¹⁶ This presentation is available at https://www.youtube.com/watch?v=n6JRG733ReQ&t=1s (last 26 accessed Oct. 20, 2022).

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¹⁷ The video of that interview is available at https://www.today.com/video/theranos-ceoelizabeth-holmes-i-m-devastated-about-blood-test-issues-43442757745 (last accessed Sept. 25, 2022). 28

Letters from Ms. Holmes' friends and family make clear that in her personal life she regularly
 acknowledges her errors with sincere reflection and remorse. *See, e.g.*, Ex. A at 268 (J. Walker Ltr. at 1)
 ("Her contrition is real and appreciable"), 271 (Y. Yu Ltr. at 1) ("Liz showed more introspection and
 remorse than what I'd personally witnessed in any other failed founder, and I had seen many in my
 decade of investing."), 143 (K. Gavrieli Ltr. at 1), 140 (S. Freeman Ltr. at 2), 148 (K. Goldman Ltr. at
 1), 160 (S. Heuser Ltr.), 197 (S. Mantri Ltr.), 250 (D. Sterling Glasband Ltr. at 3).

Ms. Holmes' efforts to root out and fix mistakes as well as her consistent acknowledgement of responsibility and errors should be considered acceptance of responsibility in this case. A defendant is not required to accept the government's view of every fact in a complex case—especially when the government's view is at odds with the facts—or give up her constitutional rights in order to receive credit for her sincere recognition of errors and remorse. *See* U.S.S.G. § 3E1.1 cmt. n.2. Ms. Holmes' actions prior to and at trial and in her personal life are well within the spirit of § 3E1.1.

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IV.

18 U.S.C. § 3553(a) SUPPORTS SUBSTANTIAL LENIENCY FOR MS. HOLMES.

14 The Court's task in sentencing is to identify and "impose a sentence sufficient, but not greater 15 than necessary, to comply with the purposes" of sentencing. 18 U.S.C. § 3553(a). Although the 16 Sentencing Guidelines are the starting point for the calculation of an appropriate sentence, a district 17 court "may not presume that the Guidelines range is reasonable." Gall v. United States, 552 U.S. 38, 50 18 (2007). Instead, the Court "must make an individualized assessment based on the facts" of each case, 19 recognizing that a within-Guidelines sentence may be greater than necessary to serve the purposes of 20 sentencing. Id.; Kimbrough v. United States, 552 U.S. 85, 91 (2007); see United States v. Gupta, 904 F. 21 Supp. 2d 349, 350 (S.D.N.Y. 2012) ("Imposing a sentence on a fellow human being is a formidable 22 responsibility. It requires a court to consider, with great care and sensitivity, a large complex of facts 23 and factors."). If the Guidelines calculation in a given case results in an "inordinate emphasis" on 24 "putatively measurable quantities," like financial loss, a court should focus more on the statutory factors 25 set forth in 18 U.S.C. § 3553(a) to determine an appropriate sentence. United States v. Adelson, 441 F. 26 Supp. 2d 506, 509-12 (S.D.N.Y. 2006), aff'd, 301 F. App'x. 93 (2d Cir. 2008). Indeed, the Court "may

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vary [from Guidelines ranges] based solely on policy considerations, including disagreements with the 1 2 Guidelines." Kimbrough, 552 U.S. at 101.

The Court must make an assessment of what sentence is reasonable based on all the factors,

including: (1) the nature and circumstances of the offense and history and characteristics of the defendant; (2) the purposes of sentencing, including the need for deterrence and to protect the public; (3) the kinds of sentences available; (4) the Sentencing Guidelines; (5) any relevant policy statements issued 7 by the Sentencing Commission; (6) the need to avoid unwarranted sentence disparities; and (7) the need 8 to provide restitution to any victims of the offense. 18 U.S.C. § 3553(a). "[T]he amount by which a 9 sentence deviates from the applicable Guidelines range is not a measure of how 'reasonable' a sentence 10 is. Reasonableness is determined instead by the district court's individualized application of the statutory sentencing factors." United States v. Dorvee, 616 F.3d 174, 184 (2d Cir. 2010) (citing Gall, 11 12 552 U.S. at 46-47). These factors support a sentence with no to minimal incarceration.

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A.

The Nature and Circumstances of the Offense Strongly Support Leniency.

14 Ms. Holmes has been convicted of defrauding certain sophisticated investors who knew they 15 were investing in a company with a big, world-changing dream and substantial potential that had not yet 16 been, and might never be, realized. Far from a house of cards, Theranos was well on its way to 17 achieving its mission: it was a technology company that developed substantial, innovative technology 18 over its fourteen-year life through the research and development efforts funded by investments and 19 performed by Theranos' many qualified, brilliant scientists and engineers. Ms. Holmes, whose first real 20 job was CEO of this company she founded at 19, was all-in on the company's mission to increase access 21 to health information: she worked constantly, never sold any stock, and remained firmly committed to 22 the company's mission until the company's end. For the reasons discussed below, the circumstances of 23 the offense strongly support a lenient sentence.

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1. The Offense Conduct Occurred Within a Unique World of Investments in **Start-Up Companies.**

Theranos was never a public company. It had limited operational history and had never paid dividends to its shareholders. Both Theranos and the offense conduct are best understood through the

lens of a Silicon Valley start-up company. That is the environment in which Theranos was founded, in
which it was built, and in which investors decided whether and how much to invest. Theranos had
massive potential, but its success was uncertain—even highly unlikely, in light of the overall odds for
start-ups.¹⁸ The company and Ms. Holmes faced the typical challenges that confront such companies
and their inexperienced CEOs. No one is arguing these factors excuse fraud, but they do situate the
offense conduct in context, as § 3553(a) requires.

7 It is common sense that investing in any uncertain venture brings with it substantial risk. 8 Investors know that is especially true with investments in startups, the majority of which fail. Tim 9 Draper is a venture capitalist with 35 years of experience whose company backed some of Silicon Valley's greatest technology success stories and was an early investor in Theranos. Ex. A at 112 (T. 10 Draper Ltr. at 1). Mr. Draper makes the simple observation that some companies succeed and some fail. 11 Id. David Sokol, an experienced venture capital investor who has built and led several companies, 12 13 including for Berkshire Hathaway, echoes that sentiment: "Through my career, I have invested in venture capital transactions which have been failures and successes." Ex. A at 239 (D. Sokol Ltr. at 2). 14 15 He goes on to explain that because a venture investment usually relies on estimates of the business's 16 value *if* it succeeds, "[v]enture capital is inherently very risky investing and often only 1 out of 10 such investments prove successful. The reason is obvious in that most venture capital ideas are attempting to 17 18 do something never before tried or achieved." Id. Yinne Yu, an investor in early-stage companies, similarly observes: "A few of my first-time founders made it; most did not. . . . Even with the best of 19 intentions, all can go wrong." Ex. A at 271 (Y. Yu Ltr. at 1). Alex Moore, also a venture capitalist, 20 agrees: "90% of my 'bets' (they are bets, nothing is certain) fail and go to 0. This is expected." Id. at 21 22 206 (A. Moore Ltr. at 2).

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¹⁸ E.g., Patel, Neil, "90% Of Startups Fail: Here's What You Need to Know About the 10%,"
 Forbes, Jan. 16, 2015, available at https://www.forbes.com/sites/neilpatel/2015/01/16/90-of-startups-will-fail-heres-what-you-need-to-know-about-the-10/?sh=559e79966792 (last visited 11/7/2022).

Academic research supports these points: "On average, seven out of ten portfolio companies will not return even the money invested in those startups; the majority will need to be written off. . . . Two

Case 5:18-cr-00258-EJD Document 1655 Filed 11/19/22 Page 57 of 82

are expected to return enough to cover all the losses; the third to provide the 20 to 30 percent internal 1 rate of return (IRR) investors [in a venture fund] anticipate." Hassan, Kama et al., "The Pervasive, 2 3 Head-Scratching, Risk-Exploding Problem With Venture Capital, Institutional Investor, at 1 (Sept. 29, 2020). Venture capitalists "are keenly aware of [the] asymmetrical return distribution" in which the 4 5 results of a portfolio are explained by the performance of a minority of the stocks-in particular, the small number of winners. Nicolas Rabener, "Portfolio Construction in Venture Capital," Harvest, at 3 6 7 (May 24, 2021). Well-established investment theories explain why (even in an efficient capital market) a sophisticated investor may choose to include a high-risk investment like venture investing in a Silicon 8 9 Valley startup as part of a broader portfolio of assets. See B. Raasch & W. Cafero, 58 N.Y.U. Annual Institute on Fed'l Taxation § 22.02 (2022) ("adding a riskier asset class . . . could actually reduce the 10 risk of a portfolio"). 11

12 "All but the most naïve of investors know there are risks that go along with potential rewards of 13 investments." Ex. A at 67 (L. Blue Ltr. at 2). Theranos did not seek investments from naïve investors, 14 but it nevertheless made sure that investors understood and could take on the risks that came with investing in it. Cf. Ex. A at 101 (M. Crane Ltr. at 2) ("We were certainly aware of the risks involved as 15 16 in any such venture, and having weighted those risks, we were comfortable in the amount we invested. . . . We believe no one should invest more than they are prepared to lose."). To that end, investors 17 18 expressly acknowledged at the time of their investment that the opportunity was unique and speculative 19 in nature, that there were serious risks of investing in the company, that the projections were unreliable, and the investors were themselves sophisticated actors. TX 1505 §§ 4.3, 4.4, 4.5, 4.6. 20

Ms. Holmes' conduct should also be considered in the context of this world, and filtered through her role as a young, first-time founder without independent business experience. Venture investors, advisors, and founders describe the unique challenges faced by a founder and CEO and the unique perspective required to bring a new venture to success. "Inventing the future is hard. Founders are called upon to strike the incredibly difficult balance between painting a picture of the world as it could be, and as it actually is." Ex. A at 81 (J. Carr Ltr. at 1); *id.* at 217 (J. Orr Ltr. at 2) (noting the "delicate balance" involved in seeking investments). "The CEO and founder must carry the torch of the vision

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through every obstacle and terrain and protect its flame from naysayers, doubters, and challengers day in and day out to create an environment for innovation to take hold." Ex. A at 143 (K. Gavrieli Ltr. at 1).

3 Set against that backdrop is the role that optimism and lack of experience play in business challenges faced by start-up founders, who may not anticipate the setbacks. "Most first-time founders 4 5 are visionary but naïve about how to build a business and how long it takes to build a business" especially the latter. Ex. A at 271 (Y. Yu Ltr. at 1). "For example, recently one of my companies gave 6 7 me a set of financial projections to review before fundraising. I cut the numbers by over 50% because I 8 see operational hiccups that the first time CEO doesn't yet have the foresight to see." Id.; see Paul A. 9 Gompers et al., How Do Venture Capitalists Make Decisions?, 135 J. of Fin. Econ. 160, 181 (2020) ("VCs report that fewer than 30% of the companies meet projections."). Dr. Susan Evans, a member of 10 Theranos' Scientific and Medical Advisory Board (SMAB) beginning in 2016, has spent her career in 11 12 product development and technology assessment in the diagnostics industry. She writes: "I have met 13 many young entrepreneurs who have a dream and many if not most, oversell what they have, and when it will be ready for market. This optimism is what often drives innovation, and the development of new 14 15 products that go beyond what is the norm." Ex. A at 128 (Dr. Evans Ltr. at 1); see also id. at 112 (T. 16 Draper Ltr at 1) ("Venture-backed startup companies often announce and deliver products to the market before they are ready."). 17

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These challenges are only compounded for female founders, as letters by female founders

19 explain in sharing those writers' experiences. For example:

20 Liz and I attended some of the same entrepreneurship events in Silicon Valley while she was at Theranos. These events often featured panels and fireside chats, where prominent people in business would make the case that a key reason less than 2% 21 of venture capital goes to women is because female founders don't present bold 22 enough visions. The advice at these conferences was to picture what massive success would look like in 5 or 10 years, and sell *that* vision, because *that's* what 23 male founders were doing, and *that's* what venture capitalists expect to see. When I think back on my younger days as a CEO, I was frequently told that my financial 24 projections were too conservative.

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Ex. A at 250 (D. Glasband Sterling Ltr. at 3). Likewise:

- 26 Speaking as a woman who has raised \$60M in venture capital, I can confirm it is not easy. It is not easy for anyone, but I feel it's worth noting that approximately 3% of venture capital goes to women CEOs. The only scientific evidence I have
- 28 MS. HOLMES' SENTENCING MEMORANDUM CR-18-00258 EJD

Case 5:18-cr-00258-EJD Document 1655 Filed 11/19/22 Page 59 of 82

encountered between men and women when it comes to raising capital is that men are more frequently asked about opportunities and women are more frequently asked about risks.

3 Ex. A at 131 (J. Ewing Ltr. at 2). "The nuanced elements of Elizabeth being a female CEO cannot be
4 overstated." Ex. A at 182 (J. Lamping Ltr. at 3); *see also id.* at 145 (A. Goldberg Ltr. at 1).

5 While they do not excuse fraud, these perspectives provide useful context for the circumstances 6 of the offense conduct, as § 3553(a) requires. First, they provide relevant context for the aspirational 7 way Ms. Holmes spoke to investors: as she explained when she testified, Ms. Holmes was frequently 8 speaking about projects Theranos was working on, ambitions, and the next generation device. Holmes 9 11/19/21 Tr. 7238:22-25; Holmes 11/23/21 Tr. 7619:22-7620:3, 7623:19-23; Holmes 12/8/21 Tr. 8586:11-14; Holmes 11/29/21 Tr. 7912:12-7914:11. Industry context and expectations help place 10 Ms. Holmes' focus on the company's vision and future in its environment and explain how such efforts 11 12 were perceived by Ms. Holmes as focusing the conversation on what investors in Silicon Valley startups 13 expect to and were asking to hear from her. They also help explain why she may have viewed a 14 proactive detailed discussion of risks and uncertainties as less important to sophisticated investors 15 investing in her company who would have been used to seeing failure in the vast majority of startup 16 companies. Second, the challenges that inexperienced CEOs have in setting financial projections and 17 anticipating operational hurdles provide additional context for Ms. Holmes' reliance on Mr. Balwani to 18 create and convey financial models that investors appropriately understand and to run Theranos' 19 operations. Third, they contextualize the challenges that surround making statements about the expected course of the development and commercialization of new technology, which could be set back by 20 scientific, regulatory, and operational hurdles that a new CEO may not see. 21

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2. Theranos Developed Innovative Technology and Provided Real Services to Real Customers in Furtherance of Its Mission to Improve Access to Healthcare.

Also crucial to understanding the nature and circumstances of the offense is the fact that Theranos "was a real company." Holmes 9/8/21 Tr. 553:7 (government opening). This was not an empty vehicle for Ms. Holmes' gain. Money that was invested went into the research and development and operations of the company with real results.

MS. HOLMES' SENTENCING MEMORANDUM CR-18-00258 EJD

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a. Theranos developed real, valuable technology.

Theranos spent most of its efforts developing products and improving the products it had developed. Financial records show that the majority of the company's funds were spent on research and development and operations. Holmes 9/14/21 Tr. 780:13-781:18 (testimony of Theranos controller S. Spivey). Theranos also built and improved its sophisticated manufacturing capabilities in California to have the infrastructure to build its inventions as products. The technology Theranos invented can be broadly categorized into three categories:

• <u>Assays</u>: Assays include the chemicals and processes for testing blood samples for particular substances. Theranos developed hundreds of small sample assays over its many years of research and development, and also developed the ability to manufacture the chemicals in-house.

 <u>Hardware:</u> This set of technology included the various versions of Theranos Sample Processing Units ("TSPU"), as well as the small sample collection device (called the nanotainer) and various other hardware and components that Theranos developed to perform analysis of blood, urine, swabs, and other samples (and to complete other tasks). Between 2010 and 2015, the time period at issue here, Theranos was working to build, perfect, and continuously improve its 4series TSPU (the minilab), which had the capability to run a host of different types of assays at once. Theranos submitted an application for approval of this device and one blood test to the FDA in 2014, and the FDA approved that application in 2015. Theranos planned to put the 4series TSPU into operation when a sufficient number of assays were approved. Other hardware inventions, including other versions of the TSPU, were also developed.

• <u>Software:</u> Theranos' software developments included medical recordkeeping software, laboratory applications, diagnostic tracking, patient- and doctor-specific applications, and infectious disease modeling.

See generally Ex. H (2018 CIM) (describing some assay, hardware, and software inventions Theranos
had developed).

The company obtained hundreds of patents in the United States and across the world covering
many of its inventions. *See* Ex. A at 82 (T. Carroll Ltr. at 1); Ex G at 3 (Overview of Theranos' IP

Assets and Near-Term Licensing Opportunities).¹⁹ The company chose to protect other innovative breakthroughs as trade secrets. Holmes 11/23/21 Tr. 7584:6-7585:19 (testimony of E. Holmes). To receive such protection under California law, Theranos was required to make "efforts that are reasonable under the circumstances" to ensure the continued secrecy of its technology. Cal. Civ. Code § 3426.1(d)(2). Theranos employed common methods, including nondisclosure agreements, security measures, limiting knowledge to "need to know," and legal enforcement of breaches of nondisclosure agreements. See 1 Melvin F. Jager, Trade Secrets Law §§ 5:21, 5:26, 13:3 (2022); 1 Roger M. Milgrim & Eric E. Benson, Milgrim on Trade Secrets § 1.04 (2020).

b. Theranos was on its way to achieving its mission to make health information more accessible through its commercial activities.

The company also executed real contracts and provided real services to real customers. In its early years, it worked with 10 pharmaceutical companies. TX 7742 at 6-7; TX 7753. Many of the pharmaceutical companies praised what Theranos had developed. Theranos also ran studies in conjunction with leading academic medical institutions, including the Mayo Clinic. TX 7742 at 6, 7. It ultimately formed retail partnerships with Walgreens and Safeway in 2010 and, beginning in fall 2013, offered tests to customers in retail stores. TX 372 (Walgreens); TX 387 (Safeway); TX 12464 (noting November 2013 public launch).

Theranos worked toward its goal of making health information more accessible through a number of different avenues. Making the process of drawing blood more comfortable and humane, including by drawing smaller samples, was one. Advocating to allow patients to order their own tests directly, without a doctor's visit, was another.²⁰ Working to bring the lab testing equipment to retail

 ¹⁹ The United States has continued to issue patents on which Ms. Holmes is an inventor based on
 Theranos' inventions after Ms. Holmes was indicted and, indeed, after her conviction. In the past four
 years, nearly 100 U.S. patents have been issued on Theranos' inventions. At least 15 have been issued
 this year, with the most recent issued on July 12, 2022. See Ex. B (U.S. Patent No. 11,385,252 B2).

 ²⁰ Theranos worked with Arizona legislators on a law that would allow patients to order their
 own blood work without a doctor's prescription. The goal was to give patients control over their own
 health information and to ensure that patients were not prevented from doing so because they did not
 have access to, or could not afford, a visit with a primary care physician. Ms. Holmes testified to

lawmakers in support of that law. The Arizona legislature passed the law nearly unanimously and HB
 MS. HOLMES' SENTENCING MEMORANDUM
 CR-18-00258 EJD

locations was a third. While Theranos' brand symbol became the small sample collection device known 1 2 as the nanotainer, Theranos learned that what was most important to patient-consumers was *cost*. In that 3 arena, Theranos was revolutionary: Theranos offered tests at substantially lower prices than the industry leaders; it offered the same price to insured and uninsured patients; and it posted the prices on its 4 5 website-a practice that was unusual at the time. Theranos' offering was so groundbreaking with regard to cost that customers *flew from other states* to get their blood tested at Theranos, and still paid less 6 7 (including airfare) than what they would have paid to the industry incumbents. Ex. U at 1 ("[Bot 8 Anecdote] Mother and daughter came from California for a day to visit there [sic] Dr. and he sent them 9 here for labs because at Quest Diagnostics the labs were \$2,400 (she showed me the print out of the 10 cost!) and they paid \$177.00 and \$192.00. With there [sic] plane tickets, taxi, and labs they spent a total of 300.00 they said. That isn't even half of what there [sic] labs would have been. They were so 11 thankful and love everything about Theranos[.]"); see also Ex. V, Ex. W. The vast majority of 12 13 Theranos' tests were processed using FDA-approved machines and processes. All tests were processed 14 in government-certified Theranos laboratories. Customers raved about the experience in feedback 15 provided to Ms. Holmes. See, e.g., Ex. U at 50 ("The main reason I went was because of the cost. I am 16 often sent a high bill for my bloodwork with insurance. When I got there, the service was fast, the ladies 17 were super and professional and I must say, it was the best experience I have ever had. Plus, no bruising 18 whatsoever! I will continue going there for my bloodwork from now on and thank you!").

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c. Theranos employed hundreds of employees.

These technological and commercial accomplishments were the work of hundreds of individual members of the community employed by Theranos over its life. Investments in Theranos also paid the salaries of the many brilliant, talented, and committed members of the Theranos employee family working to achieve its mission. As former employees describe, Ms. Holmes was personally invested in the well-being of these individuals and their families, and took their personal circumstances and professional accomplishments seriously. *See* § II(A)(3), *supra*.

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²⁶⁴⁵ went into effect on July 1, 2015. *See* https://apps.azleg.gov/BillStatus/BillOverview/66902. MS. HOLMES' SENTENCING MEMORANDUM CR-18-00258 EJD

d. Theranos' technology and operations involved scientific and regulatory complexity.

Theranos operated in a space that involved serious scientific and regulatory complexities challenges that were known or knowable to investors through public research, beyond the information they got from Theranos (if any). Ms. Holmes did not work to address these complexities alone. Company scientists—all more highly educated and experienced than she was—reported on the state of the technology, including successes, efforts to resolve challenges, and response to criticisms or questions from those now considered whistleblowers. The company worked through regulatory questions and solutions with sophisticated partners and experienced outside lawyers. And policies and procedures were also in place. None of this is to say that Theranos operated without error; it is simply context to understand (i) that Ms. Holmes did not sit at the top of a company that simply implemented her commands and (ii) that Ms. Holmes understood there were teams and processes in place to address issues. This ambitious venture was full of the complications that come with launching any business, with the added complexities of scientific advancement and government regulatory schemes.

One regulatory challenge was how Theranos and its retail partners would operate the testing as a practical matter. Early in the retail partnerships, the parties had envisioned putting Theranos devices in retail locations. Those partners and Theranos soon recognized the potential regulatory barriers to that approach—namely, a risk the devices might need to be FDA-approved or each retail location would need to be certified as a high-complexity CLIA laboratory—and shifted the rollout strategy. Theranos and Walgreens agreed that Phase I of the company's retail operations would involve shipping samples back to certified central CLIA laboratories and Phase II, putting Theranos devices in retail locations, would occur once the Theranos devices had been FDA-approved. As a result of this shift, during Phase I, because the samples were being shipped to the Theranos laboratory for processing, the device used for testing a sample was less important to the commercial project than the experience customers had in stores. Theranos shared the details of this strategic plan with the FDA shortly after it publicly announced its partnership with Walgreens. TX 7751 at 2, 3.²¹

²¹ Walgreens understood that Theranos had commercial equipment and would run samples
 requiring venipuncture "on a traditional lab test machine or perhaps outsourced to a lab" and that such
 MS. HOLMES' SENTENCING MEMORANDUM
 CR-18-00258 EJD

1 Laboratory testing is also highly regulated. By 2015, Theranos had two laboratories certified by 2 authorities in California and Arizona (working under the authority of federal agency CMS (Centers for 3 Medicaid & Medicare Studies)). Those laboratories, which were staffed with qualified employees, processed blood samples collected at retail locations (such as the Walgreens locations). The vast 4 5 majority of the eight million-plus test results produced by Theranos were generated on FDA-approved methods²²; tests performed on lab-developed methods had been validated under appropriate standards, 6 7 with validation reports signed by a qualified laboratory director. See Holmes 9/28/21 Tr. 1990:12-18, 8 1991:3-13, 2087:15-18, 2621:17-21 (testimony of lab director Dr. A. Rosendorff). Ms. Holmes, who 9 does not have a college degree, was not qualified to and did not process patient samples. Nor did she determine what methods were appropriate for patient use. Id. at 1986:23-1987:13, 1991:6-13, 2087:1-18 10 (testimony of Dr. Rosendorff). 11

12 In addition to being highly regulated, blood testing is scientifically complex. Laboratory testing 13 has inherent imprecision and imperfections. Even FDA-approved tests can produce inaccuracies for a 14 particular patient at a particular time. Government regulations indicate that test results can be 15 considered "accurate" even if they differ from a target by large percentages. See, e.g., TX 7603 at 16 § 493.931 (criteria for acceptable performance of HDL is plus or minus 30%), § 493.933 (criteria for acceptable performance of hCG is plus or minus three standard deviations), § 493.941 (criteria for 17 18 acceptable performance of platelet count is plus or minus 25% of the target). Every test has some expected inaccuracy rate, as its associated FDA labeling information makes clear. Ex. P (FDA label for 19 FDA-approved HIV assay) at 12. Even among well-accepted testing methodologies, different 20 measurement procedures can lead to different results that are difficult to compare. See Myers, Gary L. 21 22 &W. Greg Miller, The International Consortium for Harmonization of Clinical Laboratory Results

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samples "would not be run on the Edison." Ex. X (W. Miquelon testimony in AZ litigation) at 237:13-238:9. Walgreens also had physical possession of an Edison machine for its own use.

 ²² For example, patient E.T.'s blood test for HIV, which forms the basis of acquitted Count 10, was performed using FDA-approved methods and following the CDC's recommended testing algorithm. TX 14259; *see* Holmes 9/29/21 Tr. 2264:18-20 (testimony of Dr. Rosendorff).

(ICHCLR) – a pathway for harmonization, 27 The Journal of the International Federation of Clinical Chemistry and Laboratory Medicine 30, 30 (2016) ("A basic problem in laboratory medicine is that different laboratory measurement procedures that intend to measure the same measurand may give different results for the same specimen."). And for some tests the risks of inaccuracy are common enough that physicians' groups recommend against giving the test in many circumstances because the risks of an inaccurate test outweigh the benefits. *E.g.*, Holmes 11/18/21 Tr. 6879:20-6880:7, 6881:3-6; Ex. Q (TX 12332, American College of Physicians Statement re: PSA). Additionally, even companies that make FDA-approved assays sometimes produce faulty chemicals or errant calculations that lead to erroneous results. E.g., Ex. R (Siemens HbA1C), S (Siemens Estradiol). Whether and why any particular laboratory test result is incorrect is a deeply technical scientific issue. These scientific complexities provide context for the impact that any anecdotal potential errors and inaccuracies that were brought to Ms. Holmes' attention may have had on her own beliefs in the state of Theranos' laboratory when she spoke to investors.

e. Theranos' wide-ranging operations presented both promise and challenges.

In addition to the scientific and regulatory complexities, Ms. Holmes' lack of prior executive or operational experience created challenges as Theranos grew. Without a disciplined operational approach, Theranos' operations became scattered and overburdened as the company tried to achieve all of its potential use cases concurrently. For example, at the same time that Theranos began rolling out its retail offering, the company was also working on several other projects for different phases of the company, including working to scale manufacturing operations and designing technology for low cost testing in developing countries. Additionally, Theranos had a number of other projects that aligned with its broader mission: it was exploring infectious disease testing and tracking projects with international aid organizations, and it put millions of dollars of resources into customizing and improving its devices for potential future military use. Over the course of 2016, when Ms. Holmes narrowed the company's operational focus at the suggestion of experienced executives and Board members she brought in, the company returned to being a manageable endeavor, though it then faced other challenges.

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The very real assets and commercial operations of Theranos, combined with the serious
complexities of its business, made the company's financial health and upcoming challenges all more
difficult to understand, measure, and communicate—especially for a first-time CEO with vision and
determination but no business experience. One employee who worked at Theranos from 2013 through
2018 describes how Ms. Holmes grew as a leader as she started to understand the challenges that faced
Theranos:

I observed Elizabeth mature during this time and develop a deeper appreciation for the importance and quality of interim milestones towards end objectives. She made necessary changes that broadened responsibilities and decentralized decision-making while also holding individual leaders to a higher accountability standard. Elizabeth made difficult leadership changes in the later stages of the company's life and surrounded herself with individuals that were proven capable of navigating the organization under such challenging and complex conditions. While she remained committed to the purpose and vision, she realized the importance and need to shift the approach and strategy based on changing assumptions and circumstances.

13 Ex. A at 97 (T. Cooper Ltr. at 2).

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3. The Company Retained Substantial Value Even After the Alleged Fraud Was Revealed.

Although difficult to measure with precision, there is no question that Theranos had substantial value, both at the time of the investments at issue and after the revelation of the fraud. As discussed above, *see* Section III(A)(3), *supra*, Theranos was not a worthless investment after alleged misstatements were brought to light. To the contrary, the company had valuable intellectual property,

substantial cash and capital goods, and a product with FDA approval for one assay, with more

applications and technology in the pipeline. See Section III(A)(3), supra. The fact that Theranos had

and retained substantial value is a mitigating factor with respect to the seriousness of the offense.

4. The Circumstances Show Ms. Holmes To Be a Founder and CEO Deeply Committed to the Company's Mission, Rather Than Her Own Personal Gain.

Ms. Holmes' actions showed her to be a selfless CEO focused on the success of the company and its mission, and not on increasing her own wealth. As the Court knows, Ms. Holmes did not personally

profit from the investments Theranos received, never sold any of her stock, and was, as Dr. Bonanni 1 2 described it, a "selfless CEO." Additionally, Ms. Holmes' actions in the wake of criticism that began in late 2015 show a CEO interested in identifying errors, fixing them, and learning from them—not 3 running from them. She did not flee the enterprise when the company faced criticism. To the contrary, 4 5 as described in section III(E), above, Ms. Holmes embarked on a broad, resource-intensive effort to bring outside voices into Theranos and to identify, acknowledge, and correct errors or missteps, and 6 7 went down with the ship when the company shuttered. Ms. Holmes' extensive efforts in this regard are 8 relevant to consider when weighing the circumstances of the offense, especially given her youth and the 9 fact that her role as CEO of Theranos was her first business experience. The fact that Ms. Holmes was not motivated by personal gain or greed is a mitigating factor under § 3553(a)(2). See, e.g., United 10 States v. Prosperi, 686 F.3d 32, 50 (1st Cir. 2012) (affirming district court's sentence, including based 11 on finding that the defendants had not "sought to enrich themselves"); United States v. Connors, 2007 WL 2955612, at *3 (E.D. Pa. Oct. 9, 2007) (considering as a mitigating factor the fact that the defendant was "motivated by a desire to save the company and to save the jobs of its employees," in contrast to "greed and pure personal gain," which "are usually the driving force for many, if not most, fraud offenders").

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5. Because of Their Extreme Focus on Loss, the Guidelines Are Unhelpful in Fashioning a Fair, Just, and Reasonable Sentence.

As described above, *see* Section III(A), the PSR's Guidelines Calculation is driven principally by the alleged loss it attributes to the offense conduct pursuant to § 2B1.1, which quintuples the offense level and dramatically increases the Guidelines range. As noted above, the PSR's calculation of the Guidelines is erroneous. But in the event the Court finds the government has proven loss under § 2B1.1, the Court should decline to impose any sentence primarily driven by the calculation of loss.

First, because of the high loss amount alleged by the government and the PSR, this is the type of case where the impact of the loss enhancement means that the Guidelines fail to "provide reasonable guidance," and are of no "help to any judge in fashioning a sentence that is fair, just, and reasonable." *United States v. Adelson*, 441 F. Supp. 2d 506, 515 (S.D.N.Y. 2006), *aff'd*, 301 F. App'x 93 (2d Cir.

2008). "For the small class of defendants... convicted of fraud offenses associated with very large 1 2 guidelines loss calculations, the guidelines now are divorced both from the objectives of Section 3553(a) 3 and, frankly, from common sense. Accordingly, the guidelines calculations in such cases are of diminished value to sentencing judges." Frank O. Bowman, III, Sentencing High-Loss Corporate Insider 4 5 Frauds After Booker, 20 Fed. Sent'g Rep. 167, 168 (2008). Across the country, judges seem to agree: the Sentencing Commission's own data shows that there is an "increasing divergence between the 6 average Guidelines minimum and the average sentence actually imposed as loss amount grows." Mark 7 8 H. Allenbaugh, "Drawn from Nowhere": A Review of the U.S. Sentencing Commission's White-Collar 9 Sentencing Guidelines and Loss Data, 26 Fed. Sent'g Rep. 19, 22 (2013); see Jillian Hewitt, Fifty 10 Shades of Gray: Sentencing Trends in Major White-Collar Cases, 125 Yale L. J. 1018, 1025 (2016) (concluding that review of the post-*Booker* sentencing data "empirically corroborate[d] scholarly 11 criticism that the loss table often vastly overstates the seriousness of an offense"). Indeed, the Probation 12 13 Officer's own opinion that the loss guideline leads to a "drastic[] overrepresent[ation]" of the 14 appropriate sentencing range in this case serves to emphasize the point. PSR Sentencing 15 Recommendation at 2.

16 Second, more generally, the loss guideline does not bear the weight the Sentencing Guidelines 17 give it. Under § 2B1.1, in any modern white-collar case, loss has an inordinate and inappropriate effect 18 on the calculation of a Guidelines sentence that flies in the face of the statutory considerations in 18 19 U.S.C. § 3553(a). The loss table "frequently produces arbitrary and unduly severe sentences for two related reasons": (1) loss is "defined so broadly that it can produce lifelong sentencing ranges for 20 21 defendants who neither cause much economic harm nor derive much economic benefit from their 22 crimes" and (2) "the loss table's enhancements are so large that, in practice, they dwarf other potentially 23 more relevant considerations." Hewitt, 125 Yale L.J. at 1032, 1033. As result, like with narcotics 24 sentences, "[s]omewhere between 50 and 70 percent of the Sentencing Guidelines calculation . . . is 25 based on a single factor[.]" Jed S. Rakoff, Why the Federal Sentencing Guidelines Should Be Scrapped, 26 29 Fed. Sent'g Rep. 226, 227 (2017). "But it should be obvious that in a great many, perhaps most, 27 cases, ... the amount of the loss does not fairly convey the reality of the crime or the criminal." Id.

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MS. HOLMES' SENTENCING MEMORANDUM CR-18-00258 EJD

Case 5:18-cr-00258-EJD Document 1655 Filed 11/19/22 Page 69 of 82

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"By making a Guidelines sentence turn, for all practical purposes, on this single factor, the ... Commission effectively guaranteed that many such sentences would be irrational on their face." United States v. Gupta, 904 F. Supp. 2d 349, 351 (S.D.N.Y. 2012); see also United States v. Johnson, 2018 WL 1997975, at *3 (E.D.N.Y. Apr. 27, 2018); United States v. Parris, 573 F. Supp. 2d 744 (E.D.N.Y. 2008). As a result, "[t]he higher the loss amount, the more distorted the guideline's advice to sentencing judges." United States v. Corsev, 723 F.3d 366, 380 (2d Cir. 2013) (Underhill, J., concurring). These issues are compounded by the fact that the loss Guideline "was not developed by the Sentencing Commission using an empirical approach based on data about past sentencing practices." Id. at 379; see id. at 380 (describing the history of amendments to the Guideline and noting that "[t]he history of bracket inflation directed by Congress renders the loss guideline fundamentally flawed"). As Judge Rakoff has observed: Where the Sentencing Guidelines provide reasonable guidance, they are of considerable help to any judge in fashioning a sentence that is fair, just, and reasonable. But where, as

here, the calculations under the guidelines have so run amok that they are patently absurd on their face, a Court is forced to place greater reliance on the more general considerations set forth in section 3553(a), as carefully applied to the particular circumstances of the case and of the human being who will bear the consequences.

Adelson, 441 F. Supp. 2d at 515; see also id. at 509 (Guidelines place an "inordinate emphasis" on "putatively measurable quantities, such as ... the amount of financial loss in fraud cases," but they have failed to "explain[] why it is appropriate to accord such huge weight to such factors."); Corsey, 723 F.3d at 380 ("[T]he low marginal utility of the guideline in this very high intended loss case should have prompted greater, not lesser, reliance on the section 3553(a) factors other than the Guidelines."). Ms. Holmes urges the Court to focus on the § 3553(a) factors that allow the Court to engage in the "uniform and constant" exercise "in the federal judicial tradition" of "consider[ing] every convicted person as an individual and every case as a unique study in the human failings that sometimes mitigate, sometimes magnify, the crime and the punishment to ensue." Koon v. United States, 518 U.S. 81, 113 (1996).

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B.

Ms. Holmes' Personal History and Characteristics Strongly Support Leniency.

"[I]f ever a [person] is to receive credit for the good [she] has done, and [her] immediate conduct assessed in the context of [her] overall life hitherto, it should be at the moment of [her] sentencing, when

[her] very future hangs in the balance." *Adelson*, 441 F. Supp. 2d at 513-14. Described by over [130]
different letters as a compassionate, honest, and humble woman with much to give the world and a deep
commitment to doing so, Ms. Holmes' personal history and characteristics (outlined in section II, above)
strongly counsel against a lengthy incarceration. "Anyone who knows Liz recognizes that she is a
genuine and generous person who cares deeply for those around her," someone to rely on "for an honest
opinion, words of encouragement, and a selfless interest in [their] life and well-being." Ex. A at 198 (N.
Mason Ltr.).

8 Ms. Holmes asks the Court to consider the words of those who know her when weighing the
9 importance of § 3553(a)(1) in this case, including on the following points:

- Ms. Holmes is no danger to the public. She has no criminal history, has a perfect pretrial services compliance record, and is described by the people who know her repeatedly as a gentle and loving person who tries to do the right thing.
- Ms. Holmes is deeply devoted to her partner and son, and plays an integral and irreplaceable role in their lives.
- Ms. Holmes has lived her life with a purpose to change the world for the better, on scales large and small. These basic qualities motivated her in founding and leading Theranos, and they continue to shine in the way she lives her life today. She is the person her friends turn to when they need support, regardless of what is going on in her life.
- Ms. Holmes lives with this kindness, purpose, and selflessness despite significant personal
 trauma that occurred before and during the time period of the offense, and from which she is still
 recovering.
- Friends and family note with admiration that she has handled her indictment and trial with grace and without expressing and indeed discouraging ill-will towards the prosecutors who seek to incarcerate her, the media that has vilified her, or those who have been unwilling to stand by her.
 E.g., Ex. A at 121 (W. Evans Ltr. at 1); *id.* at 157 (J. Hamilton Ltr. at 2).

Additionally, the letters are striking in showing how Ms. Holmes wholeheartedly commits to the things
that matter to her—today, the people she loves and the service work she cares about.

MS. HOLMES' SENTENCING MEMORANDUM CR-18-00258 EJD

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Courts in other cases have exercised their discretion to impose non-Guidelines sentences based 2 on the personal characteristics of the defendant. E.g., United States v. Gupta, 904 F. Supp. 2d 349, 353 (S.D.N.Y. 2012) (premising downward variance, in part, on defendant's "big heart and helping hand, 3 which he extended without fanfare or self-promotion, to all with whom he came in contact"); Adelson, 4 5 441 F. Supp. 2d at 513 (premising downward variance, in part, on letters from "persons from all walks of life . . . attesting, from personal knowledge, to [defendant's] good works and deep humanity," his 6 7 "generosity of spirit," and his "integrity and generosity"). Similar considerations are present here. Ms. 8 Holmes' mother "beg[s] you to see her goodness, her unique circumstances and her promise." Ex. A at 9 39 (N. Holmes Ltr. at 10).

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Incarceration Is Not Necessary to Afford Adequate Deterrence or Protect the Public.

The needs "to afford adequate deterrence to criminal conduct" and "protect the public from further crimes of the defendant," 18 U.S.C. § 3553(a)(2)(B)-(C), are not served by a custodial sentence for Ms. Holmes.

С.

1. **Incarceration Is Not Necessary for Specific Deterrence.**

Incarceration is not necessary to either protect the public from Ms. Holmes or to deter her from committing future offenses.²³ Ms. Holmes is not a danger to society. She has been out of custody, with a perfect pretrial services record, for more than four years. PSR ¶ 195. And there is no reason to believe she would commit another fraud—or that she will ever be in a position to do so. Ms. Holmes has readily and repeatedly acknowledged the many mistakes she made while serving as CEO of Theranos—in interviews, see n.17, supra; to the SEC, Ex. T (SEC Tr.) at 347:12-13, 353:12-13, 353:19-22, 620:22-621:2, 689:19-20, 697:2-3; on the witness stand in front of the jury, e.g., Holmes 11/30/21 Tr. 8005:13-15; and to friends and family, see p. 47, supra.

"Elizabeth understands what has been lost." Ex. A at 129 (Dr. Evans Ltr. at 2). Ms. Holmes has suffered the consequences of the offense daily for years, in ways large and small. She has been formally

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²³ Social science research makes clear that "across all offenders, prisons do not have a specific deterrent effect." Francis T. Cullen et al., Prisons Do Not Reduce Recidivism: The High Cost of 27 Ignoring Science, 91 Prison J. 48S, 50S, 60S (2011). 28

penalized for her mistakes in other forums—through the administrative state by CMS and by this Court 1 in connection with her settlement with the SEC. Ms. Holmes spent her entire adult life building 2 3 Theranos until its collapse—a personal and public failure she feels deeply. E.g., Ex. A at 25, 26 (C. Holmes Ltr. at 13, 14). Beyond that failure and loss of this company she loved so much, eight years of 4 5 investigations and lawsuits have taken their toll. Having never cashed in on the value of Theranos to her own benefit, Ms. Holmes has incurred substantial debt from which she is unlikely to recover. See PSR 6 7 ¶ 165-166; Ex. A at 243 (D. Sokol Ltr. at 6). She is unable to get a job and was prevented from 8 investing what money she did have when her trading accounts were repeatedly closed by financial 9 institutions as a result of her indictment. PSR \P 165. She has lost personal friendships to the process 10 surrounding investigations, lawsuits, and lawyers, Ex. A at 6-7 (B. Evans Ltr. at 6-7), and it is difficult to make new ones, *id.* at 274 (C. Zygourakis Ltr. at 2). Her conviction also brings with it so-called 11 "civil death," the operation of the "[m]yriad laws, rules, and regulations" which prevent the reintegration 12 13 of offenders into society, even after they have served their sentence. United States v. Nesbeth, 188 F. 14 Supp. 3d 179, 180 (E.D.N.Y. 2016) (internal quotation marks omitted); *id.* at 184-86 (describing the 15 "nearly 50,000 federal and state statutes and regulations that impose penalties, disabilities, or 16 disadvantages on convicted felons" covering a "range of subject matter" that "can be particularly 17 disruptive to an ex-convict's efforts at rehabilitation and integration into society").

18 Moreover, the incessant drum of media criticism has ensured Ms. Holmes will be punished for 19 the rest of her life. The Court is well aware of the unusually intense media attention on this case before, 20 during, and after Ms. Holmes' trial. The coverage of her as a person is universally negative. Portrayals of Ms. Holmes are at best unflattering caricature and at worst dehumanizingly cruel. Almost all depict 21 22 her—inaccurately, as the scores of letters submitted with this filing make clear—as unfeeling and self-23 absorbed. Even putting aside the fact that her appearance and voice are considered appropriate for 24 mockery (a gender-specific punishment), her worst personal traumas have been treated as appropriate 25 for derision as well. Following Ms. Holmes' testimony about the psychological and sexual abuse she 26 endured at the hands of Mr. Balwani, one outlet ran a humor column in which the author wondered 27 whether she would have been able to comply with Mr. Balwani's demands. Alexandra Petri, "Opinion:

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Case 5:18-cr-00258-EJD Document 1655 Filed 11/19/22 Page 73 of 82

I tried the Elizabeth Holmes schedule, and here is how it went," Wash. Post (Dec. 3, 2021), available at 1 https://www.washingtonpost.com/opinions/interactive/2021/elizabeth-holmes-schedule-tried-myself/. 2 3 Ms. Holmes will never be able to seek another job or meet a new friend without the negative caricature acting as a barrier. She worries about how her notoriety affects friends and family—and those effects 4 5 are meaningful. See, e.g., Ex. A at 7-8 (B. Evans Ltr. at 7-8), 38 (N. Holmes Ltr. at 9), 153 (C. Gualy Ltr. at 2), 122 (W. Evans Ltr. at 2). Several letters describe how Ms. Holmes avoids friends' life events 6 7 and social occasions because she does not want to be a distraction. "I cannot overemphasize the degree 8 to which Liz is ostracized by people who do not know her and the degree to which this social isolation 9 has affected Liz, Billy, and their families." Ex. A at 274 (C. Zygourakis Ltr. at 2).

10 Ms. Holmes has also suffered a substantial loss of privacy, despite her best attempts to stay out of the public eye and to respect the legal process around this case. Mr. Evans describes the precautions 11 he and Ms. Holmes have taken in furtherance of their own privacy and safety, from dressing in hats and 12 glasses to using P.O. boxes for mail to living in private buildings or a secluded location. Yet members 13 14 of the press have taken dramatic steps to identify and publish Ms. Holmes' address, leading to cameras, 15 visits from the press and the public (as well as a recent visit from a key government witness), and 16 threats. Ex. A at 7 (B. Evans Ltr. at 7). Ms. Holmes and Mr. Evans have moved several times as a 17 result. Id.; PSR ¶ 135. Threats are also ever-present online.

These forms of punishment, including the extrajudicial collateral consequences going well
beyond "civil death" that Ms. Holmes will endure for the rest of her life regardless of her sentence, make
clear why incarceration is unnecessary and unhelpful in achieving specific deterrence in this case.

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2. Incarceration Is Not Necessary for General Deterrence.

Nor does incarceration of Ms. Holmes serve the goal of general deterrence of crime. Section
3553(a)(2)(B) "does not require the goal of general deterrence be met through a period of incarceration." *United States v. Edwards*, 595 F.3d 1004, 1016 (9th Cir. 2010) (not unreasonable for district court to
reject prison sentence to promote general deterrence; defendant sentenced to five years of probation with
seven months of home confinement on Guidelines range of 27-33 months); *see also* S. Rep. No. 98-225,
at 92 (1983) ("It may very often be that release on probation under conditions designed to fit the

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MS. HOLMES' SENTENCING MEMORANDUM CR-18-00258 EJD

particular situation will adequately satisfy any appropriate deterrent or punitive purpose."). This makes 1 2 sense. As the Department of Justice recognizes: "Sending an individual convicted of a crime to prison isn't a very effective way to deter crime." United States Department of Justice National Institute of 3 Justice, 5 Things About Deterrence (2016), at 1; see also Mirko Bagaric, A Rational Theory of 4 5 Mitigation and Aggravation in Sentencing: Why Less Is More When It Comes to Punishing Criminals, 62 Buff. L. Rev. 1159, 1205 (2014) ("[D]eterrence properly informs sentencing only to the extent that it 6 7 requires a hardship to be imposed for criminal offending. It does not require a particularly burdensome 8 penalty, merely one that people would seek to avoid."). While some courts take the view that some period of incarceration serves the goal of general deterrence, "there is a considerable evidence that even 9 relatively short sentences can have a strong deterrent effect on prospective 'white collar' offenders." 10 Adelson, 441 F. Supp. 2d at 514; see Richard Frase, Punishment Purposes, 58 Stanford L. Rev. 67, 80 11 12 (2005) ("White-collar and regulatory offenders are more likely to be deterred, even by selective 13 enforcement and modest penalties; such offenders have many lawful alternatives and much to lose from 14 being convicted, regardless of the penalty."); Elizabeth Szockyj, Imprisoning White-Collar Criminals?, 15 23 S. Ill. Univ. L. J. 485, 493 (1999) (finding empirical research on general deterrence "inconsistent"). 16 The intense media scrutiny on this matter does not change the dynamic. See Biz Carson, "Guilty or not, the Elizabeth Holmes verdict won't change Silicon Valley," Protocol (Dec. 21, 2021), available at 17 18 https://www.protocol.com/theranos-elizabeth-holmes-verdict-impact ("For Holmes, the verdict will have obvious personal consequences, including the threat of up to 20 years of prison. But for the rest of tech, 19 experts outside the Silicon Valley bubble say it's unlikely there will be some dramatic revelation or 20 change in behavior, regardless of the outcome.").²⁴ 21

²⁴ The Probation Officer's recommended sentence of 108 months appears to be primarily driven by a perceived need to serve the goal of general deterrence. Respectfully, the research indicates that a much lower sentence would equally serve that goal, and the Court's statutory obligation is to impose a sentence "no greater than necessary" to serve the purposes of sentencing.

MS. HOLMES' SENTENCING MEMORANDUM CR-18-00258 EJD

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D. Just Punishment and Respect for the Law Are Not Served by a Lengthy Incarceration.

Section 3553(a)(2)'s goals "to promote respect for the law" and "to provide just punishment for the offense" are likewise not achieved by the incarceration of Ms. Holmes. "Where offenders appear to have been unfairly singled out, respect for the law and law enforcement suffers." Frase, *Punishment Purposes*, 58 Stanford L. Rev. at 80.

The prosecutorial and cultural focus on punishing Ms. Holmes stands out. As numerous letters observe, the decision to prosecute Ms. Holmes and the associated vilification of her stands in stark contrast to the treatment of other prominent entrepreneurs who have been accused in media of fraud. *See* Ex. A at 131 (J. Ewing Ltr. at 2); *see also id.* at 221 (J. Pfeffer Ltr. at 2). Take Adam Neumann, the founder of WeWork, who was accused of diverting millions of corporate assets for personal gain and walked away from his first company with hundreds of millions of dollars. Mr. Neumann recently received a *\$350 million investment* in his next venture.²⁵ Even observers who believe Ms. Holmes was rightly the subject of prosecution cannot help but notice the discrepant treatment.²⁶ And within the Theranos story, Ms. Holmes has borne the brunt of the vitriol despite the fact that many factors—some failures of judgment on her part, some simply the operational hurdles of a complex endeavor, and some no doubt the missteps of others—contributed to Theranos' failures. The government's decision to charge Ms. Holmes personally with wire fraud in connection with Theranos' laboratory practices is one example of that singling-out, given the regulatory and personnel structures that governed Theranos' laboratory operations. Its attempt to paint Theranos' trade secrets practices as nefarious when such practices are commonplace and required by law is another. *See, e.g.*, 1 Melvin F. Jager, Trade Secrets

²⁵ See Sean Harper, "Adam Neumann Gets A \$350 Million Do-Over and Diverse Entrepreneurs Barely Get a Start," Forbes (Aug. 16, 2022), *available at*

https://www.forbes.com/sites/shaunharper/2022/08/16/entrepreneurial-inequity-is-exacerbated-withnew-investment-into-failed-wework-founder-adam-neumann/?sh=622add8243c5 (last accessed Nov. 8, 2022).

²⁶ Ellen Pao, "The Elizabeth Holmes Trial Is a Wake-Up Call for Sexism in Tech," *New York Times* (Sept. 15, 2021).

MS. HOLMES' SENTENCING MEMORANDUM CR-18-00258 EJD

Law §§ 5.21, 5.26, 13.3; 1 Roger M. Milgrim & Eric E. Benson, Milgrim on Trade Secrets § 1.04
 (2020).

E.

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Section 3553(a)(6) Supports a Downward Variance from the Guidelines.

4 The "need to avoid unwarranted sentence disparities among defendants with similar records who 5 have been found guilty of similar conduct" counsels in favor of a below-Guidelines sentence. 18 U.S.C. § 3553(a)(6). In this district, the majority of defendants convicted of crimes for which the main 6 7 Guideline is § 2B1.1 have received below-Guidelines sentences. Exs. Y-1, Y-2 (Sentencing 8 Commission Data Capture). From 2015 through 2021, in this district, the median sentence for a 9 defendant convicted of fraud, with no criminal history, and in Zone D of the guidelines received a 10 sentence that included a term of incarceration of 24 months. Ex. Z (Sentencing Commission Data 11 Capture). The national statistics are similar. Exs. AA-1, AA-2 (Sentencing Commission Data Export); 12 Ex. BB (Sentencing Commission Data Capture).

Even if the Court determines—over Ms. Holmes' objection—that the government has proven a substantial loss, the Court would be in good and abundant company in varying downward from the Guidelines range. Given the numerous and duplicative enhancements that apply to cases driven by 8 2B1.1, courts frequently sentence defendants with high loss figures and no criminal history to substantially below-Guidelines sentences. For example:

In February 2021, the COO of a publicly traded biopharmaceutical company was sentenced after a trial guilty verdict on one count of wire fraud to 12 months in custody in light of the ongoing economic hardship he would face in the future, his general good works, his comparatively lower culpability than his codefendant, and the need for some prison time to address general deterrence; the "[b]izarre, barbaric," and "absurd" Guidelines range was the statutory maximum of 20 years (on an initial range of 262 to 327 months). *United States v. Taylor*, 1:19-cr-00850-JSR (S.D.N.Y.), Sentencing Tr., Dkt. 157, at 2.

• In November 2019, a hedge fund trader who was found guilty after trial of overinflating the hedge fund's assets by \$100 million was sentenced to 40 months' imprisonment; the government

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and the Probation Office had calculated a Guidelines range of 168 to 210 months. *See United States v. Shor*, 1:18-cr-00328 (S.D.N.Y.), Dkt. Nos. 297, 301.

- In November 2018, an individual who was convicted of securities fraud after trial in the District of Massachusetts, was sentenced to a term of six months' imprisonment where the government had calculated a Guidelines prison sentence of 63 to 78 months. *See United States v. Wang*, 1:16-cr-10268 (D. Mass.), Dkt. Nos. 346, 429.
- In October 2018, a former State Street executive who was convicted after trial of securities fraud, was sentenced to a term of 18 months' imprisonment; the government had calculated a Guidelines sentence of 14 to 17 years. *See United States v. McClellan*, 1:16-cr-10094 (D. Mass.), Dkt. Nos. 517, 520.
- In October 2018, a serial fraudster who committed additional crimes while awaiting sentencing after his fraud guilty plea, was sentenced to 72 months' imprisonment where the government calculated a Guidelines sentence of 188 to 235 months and the government requested a sentence of 15 or more years. *See United States v. McFarland*, 1:17-cv-00600 (S.D.N.Y.), Dkt. Nos. 63, 68.

In May 2018, a defendant convicted at trial of four conspiracies, including conspiracy to commit bank fraud, and facing a PSR Guidelines range of life and a Court-determined Guidelines range of 97 to 121 months was sentenced to 32 months based on his otherwise exemplary life and relative role. United States v. Atilla, 1:15-cr-00867-RMB (S.D.N.Y.), Sentencing Tr., Dkt. 520. Even in cases where the conduct at issue has centered around personal greed, defendants have received substantially below-Guidelines sentences based on the totality of the § 3553(a) factors. For example, in United States v. Tuzman, No. 1:15-cr-00536 (S.D.N.Y.), after a hard-fought case and trial, defendant Kaleil Tuzman was convicted of multiple different securities fraud and wire fraud schemes related to the publicly-traded company he founded and of which he served as CEO. The court found that the frauds were motivated by the defendant's desire to make the company an attractive acquisition target, "sell the company[,] and become fantastically wealthy." Sentencing Tr., Dkt. No. 1216, at 62. The guidelines range was 210-262 months. Based on his service work while on pretrial release, the lack of a criminal

MS. HOLMES' SENTENCING MEMORANDUM CR-18-00258 EJD

Case 5:18-cr-00258-EJD Document 1655 Filed 11/19/22 Page 78 of 82

record, and severe trauma he experienced in a Colombian prison after his arrest, the court sentenced him 1 2 to time served. Id. at 66-67. In United States v. Rowan, No. 1:16-cr-10343 (D. Mass.), defendant 3 Joseph Rowan was convicted after trial with respect to his role in a racketeering conspiracy to bribe doctors to prescribe Insys Therapeutics Inc.'s fentanyl spray and to defraud insurance companies. The 4 5 government and probation calculated his Guidelines range at 324-405 months, and the government sought a sentence of 10 years. Dkt. No. 1064, at 1. The court calculated the Guidelines range at 135-6 7 168 months and imposed a sentence of 26 months' imprisonment, noting that the defendant had 8 otherwise lived a "good life and a respectful life" marked by "real decency." Sentencing Tr., Dkt. No. 9 1167. at 40.

Ultimately, the touchstone of this factor is the idea of treating defendants who are found to have 10 committed similar crimes similarly. It is nearly impossible to do that here given the unique 11 circumstances of the offense—the sophisticated investors investing in a non-public, novel technology 12 13 company with limited history seeking to change a complex, established industry and the indisputable value of that company regardless of the offense conduct—and of Ms. Holmes—her intent to do good, 14 her lack of greed, her commitment to fixing her errors, and her positive personal qualities. "Whereas 15 16 apples and oranges may have but a few salient qualities, human beings in their interactions with society 17 are too complicated to be treated like commodities, and the attempt to do so can only lead to bizarre 18 results." United States v. Gupta, 904 F. Supp. 2d 349, 350 (S.D.N.Y. 2012).

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F. Section 3553(a)(7) Does Not Counsel In Favor of Incarceration.

20 The potential need for restitution in this case should not weigh in favor of incarceration, for at 21 least three reasons. First, this is not a case where restitution would be required to return vulnerable 22 victims to their proper status. Theranos did not solicit investments from members of the general 23 investing public or from vulnerable and unsophisticated parties. To the contrary, Theranos' investors 24 were required to represent that they were sophisticated, that they understood the limited operating 25 history and uncertain future of the company, and that they could afford to lose their entire investment 26 without suffering financial harm. Second, although she did not personally benefit from the investments, 27 Ms. Holmes took dramatic and meaningful steps to give value to her investors following the Wall Street

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MS. HOLMES' SENTENCING MEMORANDUM CR-18-00258 EJD

1 Journal's investigation—including several at her own personal expense and risk. Those included 2 offering to give up ownership, actually giving some of her shares to investors, and settling with those 3 who sought to bring civil claims; transferring her liability insurance coverage proceeds back to Theranos in order to conserve company assets, rather than saving that policy for her own future legal fees; and 4 5 involving investors (including RDV) in decisions such as whether to agree to the Fortress loan and whether to allow additional investments in the company to support its work or instead force bankruptcy. 6 7 Ex. A at 74 (F. Bonanni Ltr. at 3). Third, Ms. Holmes does not have the assets to pay restitution to any 8 investors, see PSR ¶ 165-166, and, despite her sincere desire to do so, see Ex. A at 203-04 (J. Moalli 9 Ltr. at 1-2), faces likely insurmountable hurdles in acquiring sufficient wealth to do so in light of her conviction and notoriety.²⁷ 10

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Ms. Holmes' Capacity to Do Good Supports a Sentence That, In Part, Orders Ms. Holmes to Engage in Significant Community Service.

Despite her mistakes, Ms. Holmes' personal characteristics—including her deeply held desire to make the world a better place, her self-reflection, her determination and work ethic, and her visionary and creative mind—leave her with capacity and potential to positively contribute to the world. While the over 130 letters attached to this memorandum are consistent in believing that "society is better off with her in it," Ex. A at 95 (A. & S. Kiessig Ltr.), it is noteworthy how many different opportunities there are for Ms. Holmes to be a force for good. Whether it is working with individual survivors of sexual assault, teaching the lessons of her own errors, inventing new technologies, developing projects that have the potential to help solve social health problems, or something else entirely, the chorus of letters emphasize a belief among those who know her that society's best use of Ms. Holmes is "out in the world working on the next thing to improve the lives of others." Ex. A at 111 (M. Downes Ltr.); *see id.* at 74-75 (F. Bonanni Ltr. at 3-4) ("Her lessons learned through success and failure are precious. They will be invaluable if shared with the broader community of young entrepreneurs."), 50 (I. Aboyeji Ltr. at 3 ("I believe America and indeed the world has a lot to lose by keeping an entrepreneur like

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MS. HOLMES' SENTENCING MEMORANDUM CR-18-00258 EJD

 ²⁷ The Court cannot use Ms. Holmes' inability to pay to support a longer sentence. *See United States v. Burgum*, 633 F.3d 810, 814 (9th Cir. 2011) ("[I]t is well established that the Constitution forbids imposing a longer term of imprisonment based on a defendant's inability to pay restitution.").

Elizabeth Holmes behind bars instead of out in the world helping other young entrepreneurs learn from 1 her painful experience at Theranos."), 163 (Christian Holmes Ltr. at 2) ("While she is brutally self-2 3 aware of her situation and the uncertainty of her future, she focuses on how she can possibly find a path in her coming years to bring some good to others from all she's learned and weathered."), 113 (T. 4 5 Draper Ltr. at 2) ("Her vision for healthcare was only partially portrayed in her efforts at Theranos, and her ideas could save millions of lives over the course of the next few decades. Restraining her would be 6 7 a travesty."), 203 (J. Moalli Ltr. at 1) ("I am unequivocally certain that, given the space and opportunity, 8 she is such a prolific inventor that she will continue to create technology that will greatly benefit 9 humankind."). Dr. Foege, the Presidential Medal of Freedom-winning former Director of the CDC, expresses his hope that the Court is "able to develop a creative approach that permits her to use her 10 abilities to provide public benefits. She could not make those contributions while incarcerated." Ex. A 11 at 137 (W. Foege Ltr. at 3). The letters are replete with friends and former colleagues who would 12 13 support her efforts. "Elizabeth Holmes has so much more to give." Ex. A at 58 (R. & A. Bergeron Ltr. 14 at 1). Whatever combination of opportunities to make a difference Ms. Holmes takes up (pursuant to 15 Court order or her own initiative), Ms. Holmes' personal history makes clear she will approach them 16 with total dedication.

17 One meaningful approach would permit Ms. Holmes to continue the work she has done over the 18 past several months volunteering in support of sexual assault survivors. welcomes Ms. Holmes' continued services helping "the ever-increasing number of callers on the statewide sexual 19 assault helpline" and "research[ing] gaps in services and resources for victims, while working to 20 increase access to services throughout the state." Id. at 47 (Ltr. at 2). Requiring Ms. Holmes to 21 continue these efforts as part of her sentence would be a better use of society's resources than 22 23 incarcerating her. Such an approach would allow her to fulfill the promise Senator Booker, a champion of criminal justice reform and restorative justice, sees: "I believe that Ms. Holmes has within her a 24 25 sincere desire to help others, to be of meaningful service, and possesses the capacity to redeem herself. 26 ... I pray that in the coming years she is able to fulfill her desires and more humble hopes to be of meaningful service to the world." Ex. A at 77 (C. Booker Ltr. at 2). 27

MS. HOLMES' SENTENCING MEMORANDUM CR-18-00258 EJD

²⁸

CONCLUSION

"In the end we have an intelligent, fearless woman who took on a huge project that should have 2 changed the world and nearly succeeded." Ex. A at 262 (D. Tschirhart Ltr. at 2). "[N]o public good 3 will be served by incarcerating Ms. Holmes. She poses no danger to anyone. She openly acknowledges 4 5 her business mistakes and she did not benefit in any material way notwithstanding the opportunity to do so. Her suffering, including among other things extreme public ignominy, financial bankruptcy and the 6 7 terrifying prospect of incarceration while the mother of a new baby, provides more than ample 8 deterrence to others." Ex. A at 243 (D. Sokol Ltr. at 6). "We need more people like Elizabeth whose 9 unique combination of intelligence, grit and compassion makes this world a better place." Ex. A at 124 (G. Evans Ltr. at 2). The Court's charge is to fashion a sentence that is "sufficient, but not greater than 10 necessary," to serve the purposes of sentencing in this case. 18 U.S.C. § 3553(a). Although the defense 11 12 views incarceration as unnecessary to meet that directive, if incarceration is deemed necessary, a period 13 of incarceration of eighteen months or less followed by supervised release that includes a community service condition will more than capture the retributive and deterrent goals of sentencing while ensuring 14 15 that our society's resources are not wasted incarcerating someone who poses no danger to it, who in the 16 eyes of the public will never be truly free of even the counts on which she has been exonerated, and who 17 will devote her life to meaningfully serving her fellow human beings. As one friend says: "I am 18 confident that on the other side of this Elizabeth will do amazing things for society with her talents and boundless passion for changing the world for the better, and I can't wait to see how she rewards your 19 possible leniency." Ex. A at 144 (K. Gavrieli Ltr. at 2). 20

21 DATED: November 10, 2022

KEVIN DOŴNÈY LANCE WADE AMY MASON SAHARIA KATHERINE TREFZ Attorneys for Elizabeth Holmes

28 MS. HOLMES' SENTENCING MEMORANDUM CR-18-00258 EJD

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	Case 5:18-cr-00258-EJD Document 1655 Filed 11/19/22 Page 82 of 82
1	CERTIFICATE OF SERVICE
2	I hereby certify that on November 10, 2022, this under seal filing was delivered to the Court via
3	
4	ECF and by email and secure file transfer on government counsel of record.
5	/s/ Kevin Downey
6	Kevin Downey Attorney for Elizabeth Holmes
7	Automey for Enzabeth Holmes
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28	MS. HOLMES' SENTENCING MEMORANDUM CR-18-00258 EJD

	Case 5:18-cr-00258-EJD Document	1655-1 Filed 11/19/22 Page 1 of 5													
1 2	JOHN D. CLINE (CA State Bar No. 237759) 600 Stewart Street, Suite 400 Seattle, WA 98101														
2	Telephone: (360) 320-6435 Email: cline@johndclinelaw.com														
4	KEVIN M. DOWNEY (Admitted Pro Hac Vice)														
5	LANCE A. WADE (Admitted Pro Hac Vice) AMY MASON SAHARIA (Admitted Pro Hac V KATUERINE TREEZ (CA State Der No. 26277)	rice)													
6	KATHERINE TREFZ (CA State Bar No. 26277) WILLIAMS & CONNOLLY LLP 680 Maine Avenue, S.W.	J)													
7	Washington, D.C. 20024 Telephone: (202) 434-5000 Facsimile: (202) 43	34-5029													
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9	Attorneys for Defendant ELIZABETH A. HOLM	1ES													
10															
11 12		ES DISTRICT COURT FRICT OF CALIFORNIA													
12		SE DIVISION													
13															
15	UNITED STATES OF AMERICA,) Case No. CR-18-00258-EJD													
16	Plaintiff, v.	 DECLARATION OF KATHERINE TREFZ IN SUPPORT OF MS. HOLMES' SENTENCING MEMORANDUM 													
17	ELIZABETH HOLMES and														
18	RAMESH "SUNNY" BALWANI,) Hon. Edward J. Davila													
19 20	Defendants.) UPDATED TO REMOVE REDACTIONS													
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	DECLARATION OF KATHERINE TREFZ CR-18-00258-EJD														

Case 5:18-cr-00258-EJD Document 1655-1 Filed 11/19/22 Page 2 of 5

I, KATHERINE TREFZ, declare as follows: 1 2 I represent Defendant Elizabeth Holmes and am a member of the Bar of this Court. 1. Pursuant to Criminal Local Rule 56-1(c) and Civil Local Rule 7-11, I submit this declaration in support 3 4 of Ms. Holmes' Sentencing Memorandum. 5 2. Attached as Exhibit A is a true and correct copy of a collection of letters addressed to the 6 Court submitted in support of Ms. Holmes. (A redacted version is being filed publicly. An unredacted 7 version is being filed under seal.) 8 3. Attached as Exhibit B is a true and correct copy of U.S. Patent No. 11,385,252 B2, issued 9 by the United States Patent and Trademark Office on July 12, 2022. 4. 10 Attached as Exhibit C is a true and correct copy of a letter from Ms. Holmes to her parents written when Ms. Holmes was in high school 11 12 5. Attached as Exhibit D is a true and correct copy of a handwritten note written by Ms. 13 Holmes' father dated October 16, 2003. 14 6. Attached as Exhibit E is a true and correct copy of a handwritten letter written from Ms. 15 Holmes' father to her dated January 4, 2004. 16 7. Attached as Exhibit F is a true and correct copy of a photo of Sunny Balwani, Ms. 17 Holmes, and another individual taken in China in August 2002. 18 8. Attached as Exhibit G is a true and correct copy of document bearing the Bates label PC0000001 through PC0000047, as produced by Perkins Coie LLP. The redactions appeared in the 19 produced version. 20 21 9. Attached as Exhibit H is a true and correct copy of an email dated May 8, 2018, from 22 David Taylor to Erez Levy, cc'ing Elizabeth Holmes and Jeffrey Finger, and its attachment. 23 10. Attached as Exhibit I is a true and correct copy a document bearing the Bates labels Dynasty003466 through Dynasty003475. 24 25 Attached as Exhibit J is a true and correct copy of a document bearing the Bates labels 11. 26 SEC-DEPO-004639 through SEC-DEPO-004704. 27 12. Attached as Exhibit K is a true and correct copy of excerpts of the deposition of Fortress 28 DECLARATION OF KATHERINE TREFZ CR-18-00258-EJD

executive Erez Levy, bearing the Bates labels SEC-DEPO-004615, SEC-DEPO-004622, and SEC DEPO-004637.

3 13. Attached as Exhibit L is a true and correct copy of a June 12, 2016 press release issued
4 by Walgreens.

5 14. Attached as Exhibit M is a true and correct copy of the Expert Report of Carl S. Saba,
6 served on Ms. Holmes by the government on September 9, 2022. Exhibit M does not have a cover
7 sheet, as the underlying file is secured. (Filed under seal.) [no longer under seal]

8 15. Attached as Exhibit N is a true and correct copy of an excerpt from Ms. Holmes'
9 Objections and Responses to Plaintiffs' First Set of Interrogatories in *Partner Investments, L.P., et al. v.*10 *Theranos, Inc. et al.*, Delaware Court of Chancery Civil Action Number 12816-VCL.

11 16. Attached as Exhibit O is a true and correct copy of a July 20, 2016 email and attachment
12 bearing the Bates labels THER-1498421 through THER-1498424.

13 17. Attached as Exhibit P is a true and correct copy of the FDA label for the Siemens HIV
14 1/O/2 Enhanced EHIV downloaded from the FDA's website (https://www.fda.gov/vaccines-blood15 biologics/approved-blood-products/advia-centaur-hiv-1o2-enhanced-readypack-reagents (last visited
16 November 7, 2022)).

17 18. Attached as Exhibit Q is a true and correct copy of an April 9, 2013 statement by the
18 American College of Physicians regarding prostate cancer screening, as available on the organization's
19 website as of August 9, 2021.

19. Attached as Exhibit R is a true and correct copy of a document bearing the Bates label
THPFM0004198593 through THPFM0004198594, also referenced on the FDA's website at
https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfres/res.cfm?id=140899 (last visited November 7,
2022).

24 20. Attached as Exhibit S is a true and correct copy of a document bearing the Bates label
25 THER-AZ-05097313, also referenced on the FDA's website at

26 https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfres/res.cfm?id=143007 (last visited November 7,
27 2022).

28 DECLARATION OF KATHERINE TREFZ CR-18-00258-EJD 21. Attached as Exhibit T is a true and correct copy of excerpts of Ms. Holmes' testimony in the SEC investigation.

22. Attached as Exhibit U is a true and correct copy of an email dated June 7, 2015 from
Ryan Karpel to Elizabeth Holmes, copying Daniel Edlin, and its attachments. Patient names have been
redacted.

Attached as Exhibit V is a true and correct copy of an email dated March 15, 2015 from
Ryan Karpel to Elizabeth Holmes, copying Daniel Edlin, and its attachments. Patient names have been
redacted.

24. Attached as Exhibit W is a true and correct copy of an email dated August 23, 2015 from
Ryan Karpel to Elizabeth Holmes, copying Daniel Edlin, and its attachments. Patient names have been
redacted.

2 25. Attached as Exhibit X is a true and correct copy of excerpts of the deposition testimony
3 of Wade Miquelon taken in *In re Arizona Theranos, Inc. Litigation* on August 9, 2019. (Filed under
4 seal.) [no longer under seal]

26. Attached as Exhibits Y-1 and Y-2 are true and correct copies of a screen capture of
results of the United States Sentencing Commission's Interactive Data Analyzer titled "Sentence
Imposed Relative to the Guideline Range Over Time" for fiscal years 2015-2021. Based on the filters
used, this data reflects the Sentencing Commission's data for the North District of California where the
primary guideline was § 2B1.1. Exhibit Y-1 includes all criminal history categories, while Exhibit Y-2
includes only criminal history category I.

21 27. Exhibit Z is a true and correct copy of a screen capture of results of the United States
22 Sentencing Commission's Interactive Data Analyzer titled "Average and Median Sentence Length" and
23 "Average and Median Imprisonment Length" for fiscal years 2015-2021. Based on the filters used, this
24 data reflects the Sentencing Commission's data for the Northern District of California where the primary
25 guideline was § 2B1.1, the sentencing zone was Zone D, and the criminal history category was I.

28. Exhibits AA-1 and AA-2 are true and correct copies of screen captures of results of the
United States Sentencing Commission's Interactive Data Analyzer titled "Sentence Imposed Relative to

28 DECLARATION OF KATHERINE TREFZ CR-18-00258-EJD the Guideline Range Over Time" for fiscal years 2015-2021. Based on the filters used, this data reflects
 the Sentencing Commission's data for cases nationwide where the primary guideline was § 2B1.1.
 Exhibit AA-1 includes all criminal history categories, while Exhibit AA-2 includes only criminal history
 category I.

29. Exhibit BB is a true and correct copy of a screen capture of results of the United States Sentencing Commission's Interactive Data Analyzer titled "Average and Median Sentence Length" and "Average and Median Imprisonment Length" for fiscal years 2015-2021. Based on the filters used, this data reflects the Sentencing Commission's data for cases nationwide where the primary guideline was § 2B1.1, the sentencing zone was Zone D, and the criminal history category was I.

I declare under penalty of perjury under the laws of the United States that the foregoing is true and correct to the best of my knowledge.

Executed this 10th day of November 2022 in Washington, D.C.

KATHERINE TREFZ Attorney for Elizabeth Holmes

Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 1 of 156

Exhibit M (previously filed under seal)

United States v. Holmes, et al.

Case # 18-CR-00258

Expert Report of Carl S. Saba, MBA, CVA, ASA, ABV

Confidential

Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 3 of 156

Table of Contents

1.	Qualifications1
11.	Assignment
ш.	Evidence Relied Upon
IV.	Summary of Opinions
٧.	Introduction8
A	8. Standard and Premise of Value
В	3. Statement of Scope and Limitations10
c	Statement of Disinterest
VI.	Theranos Background
VII.	Industry Analysis
VIII	. Economic Conditions15
IX.	Financial Review
A	Adjustments to Reported Financial Statements
В	Balance Sheet Review
C	Income Statement Review
D	9. Financial Ratios Review
х.	Estimate of Value
XI.	Value of Theranos at February 7, 2014
A	Income Approach – Discounted Cash Flow Method
В	Asset Approach – Adjusted Net Asset Value
С	Conclusion of 100% Equity Value
D	Equity Allocation Models
XII.	Value of Theranos at December 31, 201444
XIII.	Value of Theranos at October 15, 201545
XIV.	Conclusion of Values
xv.	Appendix47
A	. Investor Financings – Back-solve Methods

Β.	Investor Forecasts – DCF Models	\$
C.	Assumptions and Limiting Conditions51	L
D,	Certifications and Representation	\$
XVI. E	xhibits55	ł

I. Qualifications

1. I am a Partner in the Financial and Forensic Consulting Group at Hemming Morse, LLP. I received a Bachelor of Science degree in Business Administration and Finance from The Haas School of Business at the University of California (Berkeley) in 1995. I received an M.B.A. with an emphasis in Finance from the Marshall School of Business at the University of Southern California, where I graduated with honors in 2003. I have been designated as a Certified Valuation Analyst (CVA) by the National Association of Certified Valuators and Analysts (NACVA). I am an Accredited Senior Appraiser ("ASA") by the American Society of Appraisers and Accredited in Business Valuation ("ABV") by the American Institute of Certified Public Accountants. Prior to Hemming Morse, I was the Partner in Charge of the valuation and financial Consulting Practice at Burr Pilger Mayer, Inc., a regional certified public accounting firm with approximately 400 employees.

2. I have twenty-six years of experience in the valuation of businesses, analyzing the financial condition of businesses, and consulting to businesses and business owners. The last eighteen years of my experience have focused on business valuation, economic damages analyses, transaction due diligence support, and fraud and forensic investigations. In that period, I have been retained to prepare over eight hundred valuations of businesses, intellectual property, debt instruments, and complex derivatives. These valuations have been prepared for litigation, tax reporting, financial reporting, and transaction support purposes, including bankruptcy. The majority of my valuations have focused on my expertise

with technology, life sciences, and medical device companies, from very early stages of development through late stage publicly traded companies.

3. I am the Co-Founder and Chair of the Fair Value Forum, a San Francisco Bay Area based business valuation expert group that meets periodically to discuss technical issues and best practices in the profession. I was formerly on the Board of the Valuation Roundtable of San Francisco for several years and served a term as President of that organization. I have presented in a number of national conferences on the topic of business valuation and have authored articles and publications on the same. Many of my presentations and publications are focused on the valuation issues specific to technology, life sciences, and medical device companies. As an example, in 2013 I co-authored the valuation section of *The 409A Administration Handbook, Compliance and Company Valuation*, published by Thomson Reuters. My current curriculum vitae is attached to this report as Appendix Exhibit H and provides additional details.

4. My employer Hemming Morse, LLP is being compensated at an hourly rate of \$560 for my time, and at hourly rates ranging from \$280 to \$400 for employees who assisted me on this assignment.

II. Assignment

5. I have been retained through my employer, Hemming Morse, LLP, Certified Public Accountants and Financial and Forensic Consultants by the U.S. Attorney's Office, Northern District of California ("USAO" or "Counsel") in the matter of United States v. Holmes, et al., to estimate the fair market values of 100% of the equity in Theranos, Inc. (referred to as "Theranos" or "Company"), on a controlling, marketable basis as of the following dates:

- February 7, 2014 (the "2/7/2014 Valuation Date");
- December 31, 2014 (the "12/31/2014 Valuation Date"); and
- October 15, 2015 (the "10/15/2015 Valuation Date"); (collectively, the "Valuation Dates").

6. My assignment included allocating the above equity values of Theranos to all of the securities in the Company's capital structure. I have also been asked to calculate the loss to Theranos Series C-1 and Series C-2 Preferred Stock investors resulting from the difference between my concluded values for their shares and their initial investment purchase price of \$15.00 and \$17.00 per share, respectively.

7. In carrying out my assignment, my objective was to define a minimum range of loss to investors, and I have applied several assumptions that provide a favorable interpretation of the equity value of Theranos on the Valuation Dates. These assumptions include adopting optimistic management forecasts that assume Theranos' significant technology challenges will be successfully resolved, that the Company will realize high revenue growth in the near term, and that it will earn significantly above industry margins. I have further applied target investor rates of return that are on the low end of the applicable range for these forecasts.

8. Another favorable set of assumptions I have made is that Theranos' historical expenditures were primarily directed towards research and development efforts, that such expenditures were productively spent and created value, and the large majority of such

expenditures do not relate to technology that is obsolete on the Valuation Dates. Wherever I have faced limitations in information available to conduct this assignment, I have applied an interpretation that is most favorable to the value of Theranos, and that leads to a minimum range of investor loss. My significant valuation assumptions are more fully explained throughout this report.

9. This report summarizes my current opinions given the information available to me to date; I may consider any additional materials that become available and amend or supplement my opinions and this report, if appropriate.

10. In connection with my anticipated testimony, I may be asked to create, from various documents produced in this litigation and obtained through independent research, demonstrative schedules which refer or relate to the matters discussed in this report. I have not yet created such demonstrative schedules.

11. In my work I have been assisted by others in my firm who have acted under my direction and control. However, the opinions in this report are my own.

12. I understand that this report may be made available to other parties in this litigation, to their counsel and experts, as well as to the Court in connection with sentencing. It has been prepared for use in this action. In all other respects, this report is confidential. It should not be used, reproduced or circulated for any other purpose, in whole or in part, without my prior written consent. No other party is entitled to rely on this report for any purpose whatsoever.

III. Evidence Relied Upon

13. My understanding of the relevant facts comes from the documents provided by Counsel, transcripts of interviews and trial testimony, and materials I gathered through my research¹. I have been provided internal Company and investor communications, transcripts of trial testimony by employees, investors, prospective and actual business partners to Theranos, and significant documents with regards to the Company's assets and liabilities, historical and future performance, and business operations. I was not able to interview Theranos' management or employees directly. The documents I considered or relied upon are identified in Appendix Exhibit I.

IV. Summary of Opinions

14. My opinions of value are based on consideration and application of the three categories of widely accepted valuation methods; the income, market, and asset / cost approaches. I applied the discounted cash flow method (income approach) in combination with the guideline public company method (market approach) to define the upper bound of Theranos' value on the three Valuation Dates. I also applied the adjusted net asset value method and the cost to recreate method² to define the lower bound of Theranos' value on the Valuation Dates, resulting in a range of value. Finally, I applied the back-solve method (market approach) to infer the value of Theranos based on the price paid by investors for their Series C-2 Preferred Stock. This back-solve method value is not my opinion of Theranos' fair market value, it was prepared to demonstrate the implied value placed on the Company

¹ My research includes information available through a subscription to the S&P Capital IQ database.

² Also referred to as "reproduction cost new" in business valuation guidance.

by investors. A summary of my estimated fair market values is outlined below, and these include the Company's substantial cash balances:

100% Company Equity Value Range (In Thousands)			Cash Balance Included in Equity Value (Thousands)		Series C-1 Per Share Value Range					Series C-2 Per Share Value Range				Valuation Date	Report Exhibit	
\$	378,000	÷	\$ 431,000	\$ 151,912	\$	8.77	÷	\$	9.39	\$	9.90	÷	\$ 10.59	02-07-14	Exhibit A.3	
\$	827,000	1	\$ 951,000	\$	465,933	\$	9.61	4	\$	10.36	\$	10.80	÷	\$ 11.63	12-31-14	Exhibit A.4
\$	1,051,000		\$ 1,184,000	\$	496,919	\$	10.14		\$	10.81	\$	11.37	•	\$ 12.11	10-15-15	Exhibit A.5

15. One method to calculate the loss to Theranos investors is to determine the difference between their initial investment price and their ultimate recovery in the dissolution of the Company³. The method I applied is based on my estimates of the above fair market values for Theranos' equity, which leads to a smaller loss figure. I have calculated the aggregate Series C-1 and C-2 investor losses to range between **\$277.965 million** and **\$315.884 million** per Exhibit A.1 to this report. This loss is measured as the difference between the price paid by investors and my estimated value above on the date closest to when the investment was made. I have been asked to prepare an alternate calculation of investor loss based on my estimated values as of only the 10/15/2015 Valuation Date, which results in a range of aggregate loss between **\$237.323 million** and **\$273.646 million**.

16. The above equity values and investor loss calculation are based on the favorable premise that Theranos will continue to operate as a going concern, as explained in the next section of this report. If the Company were facing near term dissolution on the Valuation

³ I understand that many investors did not recover any portion of their initial purchase price. The method discussed here is not meant to reflect any specific legal guidance on loss calculations.

Dates, its recoverable equity value would be substantially lower. In such a scenario, the Company would be forced to sell its technology assets under distressed sale conditions. In addition, the Company's Edison device capabilities were still far behind that of conventional laboratory equipment⁴.

17. One data point that is informative as to the value of Theranos' technology under such a scenario is a loan extended to the Company by Fortress Credit Corporation in December 2017. The loan totaled \$65 million in initial funds disbursed, with the remaining \$35 million contingent on the Company achieving development milestones. The loan was secured with all assets of the Company including its patents and patent applications⁵. Fortress made this loan based on their consideration of the value of Theranos' intellectual property collateral in a potential default scenario.⁶

18. Under a liquidation premise and if the maximum loan amount of \$100 million were assumed to be the recoverable value of Theranos' technology in a dissolution, the Company's resulting equity values would be approximately \$138 million, \$416 million, and \$448 million respectively on 2/7/14, 12/31/14, and 10/15/15⁷. This would result in larger investor losses than my calculations above.

19. Because I am using a going-concern premise, it is important to note that even if the value of the Company exceeds the liquidation preference of the Series C-1 and C-2 shares,

⁴ Refer to Theranos Background section of this report for discussion on state of the Company's technology.

⁵ Exhibit 191 to Deposition of Erez Levy, Fortress Credit Corp Investment Memorandum, December 2, 2017.

⁶ Deposition of Erez Levy, Managing Director at Fortress, September 24, 2019, p.31:7-14, p. 68:16-25.

⁷ These values are based on my adjusted net asset value methods on Exhibits E.1, H.1, and K.1, with a substitution of intangible asset value in those methods with \$100 million.

that does not mean the Series C-1 and C-2 investors have not incurred losses as of the Valuation Dates. This is because, as a going concern, there are a wide range of possible future outcomes for the Company. Some outcomes may be extremely favorable and some may result in no return for any of the investors. The standard way of valuing specific classes of stock is to use option pricing theory which is what I have done. This makes it is possible to consider the range of outcomes and derive a value for each class of stock. This is more fully described in the "Equity Allocation Models" section of this report.

V. Introduction

A. Standard and Premise of Value

20. As the standard of value for this report, I have employed a definition of fair market value used in appraisal practice,⁸ originally found in Section 20.2031-1(b) of the Estate Tax Regulations and Section 25.2512-1 of the Gift Tax Regulations and incorporated into Section 2.02 of Revenue Ruling 59-60. That definition is:

"The price at which the property would change hands between a willing buyer and a willing seller when the former is not under any compulsion to buy and the latter is not under any compulsion to sell, both parties having reasonable knowledge of relevant facts."

⁸ This definition, or one very similar, has been adopted by The Institute of Business Appraisers, The National Association of Certified Valuation Analysts, The American Society of Appraisers, and The Appraisal Foundation.

21. Court decisions frequently state⁹ in addition that the hypothetical buyer and seller are assumed to be able, as well as willing, to trade and to be well informed about the property and concerning the market for such property. Fair market value is defined in the U.S. tax regulations, and it is a widely used standard of value for non-tax related matters. Although I assume a buyer of Theranos was accurately informed as to its financial condition, its state of development, and the capabilities of its technology, I ignore for purposes of my valuation the occurrence of misrepresentations made by Company management to investors and other third parties. Such misrepresentations can damage a company's brand image, its ability to raise capital and continue operating as a going concern, and may result in significant litigation related liabilities. These negative factors are excluded from my estimates of value¹⁰.

22. I have appraised Theranos's stock under a going concern premise. This premise assumes that the Company is an ongoing business enterprise with management operating in a rational way with a goal of maximizing owner value¹¹. This will be discussed more fully in the valuation section of this report. And, as mentioned above, using a liquidation premise as of the Valuation Dates would result in a substantially lower values for Theranos' equity and the Series C-1 and C-2 shares.

^a In the *Estate of Kaufman*, TCM 1999-119, the court noted that "[t]he hypothetical willing buyer and the hypothetical willing seller both aim to maximize their profit from the hypothetical sale of the property."

¹⁰ Excluding these factors results in a higher estimated value, and a lower investor loss calculation.

¹¹ A going concern premise assumes the business is not about to be dissolved or liquidated.

B. Statement of Scope and Limitations

23. This Summary Report was prepared, and my analyses, opinion and conclusions were developed, in conformity with the American Institute of Certified Public Accountants' Statement on Standards for Valuation Services No. 1 ("SSVS") and USPAP of the Appraisal Foundation.

24. This report was prepared subject to certain Assumptions and Limiting Conditions included in the appendix to this report. My Certifications and Representations are also included in the appendix to this report.

25. I obtained a variety of financial, operational, economic, and industry documents and information from Counsel as well as from outside sources. I have assumed all information is accurate and complete. I was unable to have direct communication with management and employees of Theranos in this assignment.

26. This report reflects my understanding of facts and conditions existing at the Valuation Dates. Subsequent events have not been considered unless they were known or knowable on the Valuation Dates¹², and I have no obligation to update my report for such events and conditions. However, I reserve the right to update my report for new information that is provided to me.

¹² I have also considered subsequent events that provide evidence of facts and conditions existing as of the valuation date.

C. Statement of Disinterest

27. I have no present or contemplated future interest in the subject property of this Appraisal Report. I have no interest in or bias with respect to the subject property or the owners thereof.

VI. Theranos Background

28. On the Valuation Dates, Theranos operated clinical laboratories in Newark, California, and Scottsdale, Arizona. In addition, Theranos was in continued development of its immunoassay blood testing device (the Edison), with the objective of providing faster, more accurate results at a lower price point to patients than traditional laboratories, while requiring patient samples with only a few drops of blood. Historically, Theranos had entered into contracts with pharmaceutical companies to provide testing services in support of clinical trials. On the Valuation Dates, these agreements and related revenues had terminated.

29. Theranos' business model on the Valuation dates encompassed a vision for its Edison device to provide a wide variety of tests to patients in the retail market with the following advantages over reference labs such as Labcorp and Quest Diagnostics¹³:

 Faster Results – four hours for test results in a retail setting and one hour in a hospital setting

¹³ Trial testimony of Brian Grossman, November 16, 2021, 6379:8 – 6382:1, 6392:16 – 6395:10, 6404:19 -6406:24

- Higher Accuracy less variability in test results than conventional lab, due to higher automation of processes within the device and less exposure to human error.
- Lower Pricing at 50% of Medicare reimbursement rates.
- Ability to run a large array of tests, and to match the broad menu of tests offered by Labcorp and Quest Diagnostics.
- Use of few drops of blood obtained through a finger prick rather than a traditional venipuncture procedure requiring larger blood draw from patients.
- A processing device that was much smaller than traditional lab equipment and that could eventually be placed in locations outside a laboratory¹⁴ such as retail pharmacies.

30. As of the Valuation Dates, Theranos had not achieved the above capabilities for its technology, and significant development and operational risks faced the company. Ms. Holmes testified that only 12 assays were offered when the analysis was performed on the miniaturized Theranos device, in the CLIA laboratory,¹⁵ and that this was one of the central issues raised by the Wall Street Journal regarding the state of development of Theranos' technology.¹⁶ Ms. Holmes also testified that its newest device the Minilab, which was part of the 4 series, was never used for patient testing, was never put in use in the CLIA laboratory in California, and as of October 15, 2015, had been approved by the FDA in use for a single

¹⁴ Placing the Company's device outside of its laboratory would have required FDA approval, which Theranos had not obtained on the Valuation Dates.

¹⁵ Trial Cross-examination of Elizabeth Holmes, November 30, 2021, 8003:7-15.

¹⁶ Cross-examination of Elizabeth Holmes, 8003:16-8004:21.

assay, the Herpes test assay.¹⁷ Ms. Holmes also testified that the only Theranos manufactured analyzer that was ever used in the CLIA laboratory in California was the Edison 3.5, which was used for immunoassays only, rather than for general chemistry, cytometry or nucleic acid amplification.¹⁸

31. Ms. Holmes further testified that it was the Edison 3.5, one of Theranos' earlier models, rather than the Minilab, that was used to perform 12 assays in the CLIA laboratory in California between September 2013 and June 2015, and that by the time of the CMS inspection in September 2015, Theranos was not using any of its manufactured analyzers in the CLIA laboratory.¹⁹ Similarly, Ms. Holmes testified that Theranos did not use its own technology, including the Minilab, to run tests at its Arizona Moderate Complexity Laboratory, but rather used commercially available equipment.²⁰ Mrs. Holmes further explained that in order to perform the majority of the 200-some tests on its menu (beyond the 12 tests discussed above), Theranos was dependent on machines from third parties such as Siemens, Beckman Coulter or Becton Dickinson.²¹

32. Testimony from Surekha Gangakhedkar and Erika Cheung was similar regarding the state of the Company's technology. Ms. Gangakhedkar testified that the Edison 3.0 and the Minilab 4.0 was not ready due to reliability issues that were unresolved²². Ms. Cheung testified that the Edison could only run one type of assay on one patient at a time while third

¹⁷Trial cross-examination of Elizabeth Holmes, November 30, 2021, 8014:24-8015:20 and 8018:6-8.

¹⁸ Cross-examination of Elizabeth Holmes, 8015:21-8016:11.

¹⁹ Cross-examination of Elizabeth Holmes, 8016:12-8017:25.

²⁰ Cross-examination of Elizabeth Holmes, 8019:4-8020:13.

²¹ Cross-examination of Elizabeth Holmes, 8018:9-8019:3

²² Trial testimony of Surekha Gangakhedkar, September 17, 2021, 1185:5-1188:12.

party machines could process 30-40 patients at one time while conducting several different tests for each patient²³. In addition, the Edison could run "between 4 and max 12"²⁴ immunoassay tests, not the hundreds management had envisioned.

33. Starting in February 2014, and ending in April 2015, Theranos raised \$734 million in capital from various investors through the sale of Series C-2 Preferred stock. In addition, the Company raised \$112.5 million in Series C-1 Preferred stock capital between August 2011 and January 2014²⁵. Because it is my understanding that these capital raises were based on misrepresentations to investors regarding the capabilities of the Company's technology and progress with the Company's business model, I did not rely on these transactions to estimate the fair market value of Theranos on the Valuation Dates.

VII. Industry Analysis²⁶

34. Theranos operates in the Scientific Research and Development industry in the US which includes companies and organizations that are involved in physical, engineering or life sciences research and development (R&D).

35. Over the past five years, the industry has performed well despite challenging conditions presented by the recession, which have caused many industries to decline. Indeed, industry growth is expected to be limited in the next two years, before strengthening in the second half of the next five-year period as falling federal funding for defense and weak government

²³ Trial testimony of Erika Cheung, September 14, 2021, 807:19-809:9

²⁴ Trial testimony of Erika Cheung, September 14, 2021, 805:21-24, 812:10-11

²⁵ This figure includes promissory notes convertible to Series C-1 Preferred Stock. The majority of C-1 sales occurred in calendar year 2013.

²⁶ IBISWorld, IBISWorld Industry Report 54171, Scientific Research & Development in the US, December 2014.

investment will mitigate industry growth. That said, improving private investment from major industries, such as oil and health, will help long-term growth. The industry is projected to continue to grow at an average annual rate of 2.4%²⁷ to \$147.3 billion over the five years to 2019.

VIII. Economic Conditions²⁸

36. The relevant time periods for a review of the state of the U.S. economy are the Valuation Dates. Throughout 2014, the majority of U.S. economic indicators continued to improve.

37. Although growth in gross domestic product ("GDP") declined slightly in the first quarter of 2014, by year end GDP growth had rebounded to 2.6% following two quarters of rapid growth (4.6% and 5.0%, respectively). Health care spending as a share of GDP remained stable for the past two years. Unemployment which wavered around 6.7% in February continued to decline through December to 5.6%. Construction starts, manufacturing activity and productivity were improved in both periods and throughout 2014. Personal income and consumer spending improved in February which continued through December. Despite some intra-year fluctuation, all major stock market indices ended 2014 higher than at the end of 2013. Inflation remained subdued and these trends were expected to remain steady through 2015.

²⁷ This represents an inflation adjusted real growth figure. Forecasts in an income approach to valuation make use of nominal figures that include inflation.

²⁸ KeyValueData, "National Economic Report", February 2014 and December 2014; JT Research LLC, "Overview of the U.S. Economy", Fourth Quarter 2014; and Federal Reserve Bank of Philadelphia Research Department, "Survey of Professional Forecasters", Fourth Quarter 2014.

IX. Financial Review

38. In valuing Theranos, it is useful to examine the financial position of the company. This allows the appraiser to review the history of Theranos, compare it to its industry, and use the analysis to assist in assessing the future prospects of the company.

39. I have analyzed Theranos's financial statements for the years ended December 31, 2007, to December 31, 2015, the period closest to the last of my three Valuation Dates.²⁹ Interim financial statements between calendar year ends 2013 and 2015 were not available.

40. Theranos's historical financial statements are presented in Exhibits B.1 through B.6 which include common size presentations and comparative industry metrics. My analysis includes a comparison of Theranos to industry averages of a guideline public company peer group, and industry data published by RMA and Bizminer as shown in Exhibits B.4 – B.6.³⁰ I have used data for companies defined in Exhibit D.3 as a peer group to Theranos.

41. I note that because Theranos was not a mature company and had not reached profitability or meaningful revenues from core services on the Valuation Dates, future results were expected to deviate from past results. In the valuation section of this report, I discuss in greater detail the financial projections used for valuing Theranos.

²⁹ The 2007 – 2008 financial statements were audited, the remainder are internally prepared [KPMG_Theranos_000164-000188].

³⁰ The guideline public company data was obtained from S&P Capital IQ, and the selection of these companies is discussed in the estimate of value section of this report. https://www.spglobal.com/marketintelligence/en/solutions/sp-capital-iq-platform

A. Adjustments to Reported Financial Statements

42. In analyzing a company's historical earnings as a guide to estimating the company's earnings base, it is important to make the distinction between past earnings that represent ongoing earning power and those that do not. Financial statements should be adjusted to eliminate the effect of past items that would tend to distort the company's current and future earning power, such as items that are unusual or non-recurring in nature, occur infrequently, are discretionary, or are derived from non-operating sources, such as interest income.

43. Based on my review, I identified items that require adjustments in Theranos's financial statements. These adjustments to the income statement were related to removing non-recurring or non-operating expenses, and included interest and other income. These adjustments provide a consistent basis (by only considering operating income) by which to compare Theranos to other publicly traded companies whose financials were reported by Capital IQ using the same method. It is noted that these adjustments to the financial statements were very small in relation to the total revenues and expenses for each period, and are shown in Exhibit B.3.

44. In addition to the above adjustments, I also adjusted out a "miscellaneous receipts liability", that equals a portion of proceeds from the 2013 and 2014 capital raises, and compensation of service providers with preferred stock, for which I understand the stock was not yet issued. Since Theranos would satisfy the miscellaneous receipts liability by issuing the corresponding stock, and such stock was included the capitalization tables as of my Valuation Dates, I removed these liabilities. The amount of these liabilities totaled \$45.187 million as of 12/31/13 and \$390.375 million as of 12/31/14.³¹

B. Balance Sheet Review

45. Theranos's adjusted historical balance sheet is shown in Exhibit B.4.

46. **Assets**. Theranos's assets were primarily comprised of cash generated by proceeds from the sale of preferred and common shares. Compared to its peer group, Theranos was far heavier in its cash holdings, at \$424 million at 12/31/15. Theranos also carried low levels of inventory on its balance sheet, similar to its peer group. Adding non-current receivables of \$27 million, Theranos' assets summed to \$535 million at 12/31/15.

47. Liabilities and Equity. Theranos had little current liabilities in relation to its cash holdings. Theranos did carry significant amounts of long term liabilities in the form of customer deposits / deferred revenue of \$136 million, notes payable in the amount \$41 million and other non-current liabilities of \$35 million at 12/31/15, for total liabilities of \$250 million. As a result, Theranos' equity was significantly positive at 12/31/14 and 12/31/15. For a company that was not mature and still investing in growth, this conservatively levered balance sheet appears appropriate. Compared to its peer group, Theranos was similarly heavy on equity versus both current liabilities and debt.

³¹ The \$45.187 liability as of 12/31/13 reconciles closely to the proceeds of 2.683 million Series C-1 shares issued between 8/1/13 and 12/31/13 at \$15 per share, plus additional shares issued to directors and legal service providers [THPFM0004648099, lines 82-88 of Excel KPMG auditor workpaper]. The \$390.375 million liability as of 12/31/14 reconciles closely to the proceeds of 22.838 million Series C-2 shares issued 10/31/14 through 12/31/14 at \$17 per share and marked as "subscribed" in Theranos capitalization tables.

C. Income Statement Review

48. Theranos's historical income statement, adjusted as described above, is shown in Exhibit B.5.

49. *Sales and Cost of Goods Sold*. Theranos' revenue was minimal in the years leading to 12/31/14 and 12/31/14, in keeping with the fact that Theranos was a near pre-revenue and pre-profit company. Revenues in the period 2009-2011, at under \$3 million per annum, resulted from contracts with pharmaceutical companies such as Celgene to provide testing services that would support clinical trials. These revenues terminated in 2011 and did not recur thereafter.

50. *Operating Expenses*. Operating expenses were significant and increasing in the years leading up to 12/31/14 and 12/31/15, with research & development, and general and administrative costs of \$97 million and \$76 million in 2015, respectively.

51. *Net Income.* Like many growing and young companies, Theranos had incurred significant losses through 2015, with losses of \$184 million in 2015.

D. Financial Ratios Review

52. I have reviewed Theranos's financial ratios shown in Exhibit B.6 and compared them to a peer group.³² The purpose of financial ratios review is to compare Theranos' historic financial performance with benchmark data available in the marketplace, i.e., the peer group I have selected. The financial ratios reflect the fact that Theranos was a near pre-revenue

³² The peer group is comprised of public companies identified as having similar characteristics to Theranos, as shown in Exhibit D.3.

and pre-profit company as of 12/31/14 and 12/31/15 and that it retained large amounts of cash proceeds from investor financings. Its current ratio was well above that of its peers. Certain other metrics were not meaningful, as Theranos had negative earnings and operational metrics, and low levels of fixed assets.

53. **Summary:** In conclusion, Theranos's financial metrics and financial condition at the Valuation Dates are in keeping with the fact that it was an early stage near pre-revenue and pre-profit company.

X. Estimate of Value

54. The value of a closely held business is derived not from a formula, but from the relevant facts and circumstances of a company and is based on informed judgment with regard to those facts. In determining fair market value, I considered available financial data, as well as all relevant factors affecting the fair market value. One of the first issues to address in valuing an interest is whether that interest has control and is marketable. As discussed directly below, the 100% equity interests I valued in Theranos were considered both controlling and marketable at the Valuation Dates.

Controlling Interest Consideration

55. The 100% interests being valued in Theranos on the Valuation Dates represented majority ownership interests in the entire company, and therefore possessed the ability to control management and financial decisions impacting the entire company or the business segment. These decisions included the ability to elect directors and appoint management, determine management compensation and perquisites, set policy, acquire and liquidate assets, determine dividend distribution policy, and other significant policies. Accordingly, I have considered valuation methods which yield an estimate of value on a controlling basis. 56. It is noted that when I allocated Theranos' value to different share classes, the investors in these shares did not hold controlling interests in the Company³³. I did not discount the preferred shares held by investors for lack of control, which results in a higher fair market value for their shares, and lower calculated investor loss than had I applied such a discount. Preferred stock investors in early-stage companies often collectively exert elements of influence or control over the companies they invest in³⁴.

Marketability Consideration

57. A major component of a security being valued is its marketability. All other things being equal, an investment is worth more if it is marketable than if it is not, since investors prefer liquidity over lack of liquidity. Investments that lack the inherent liquidity of publicly traded securities are, all else being equal, less attractive investments. Given that the 100% equity interests that I valued in Theranos are controlling interests in the entire company, the owner of such interests would have had control over the decision to sell the entire company to achieve liquidity. As such, I applied valuation methods that yielded an estimate of value on a marketable basis, and no lack of marketability discount was applied.

³³ Mrs. Holmes testified that she was the founder of Theranos, the only CEO Theranos had ever had, and that at various points in time before 2016 she owned a majority of the voting shares in Theranos. At the end of 2016, Mrs. Holmes owned more than 51% of the Class B common stock in Theranos [Cross-examination of Elizabeth Holmes, 8004:22-8005:6, 8013:18-8014:15].

³⁴ AICPA Practice Aid: Valuation of Privately-Held-Company Equity Securities Issued as Compensation, 2013, Sections 7.08, 7.11 [accessed via Commerce Clearing House Accounting Research Manager Subscription]

58. The investors in Series C-1 and C-2 shares did not hold controlling interests in the Company as noted above, and could not make a decision to sell the entire company to achieve liquidity. Under valuation theory, it is generally accepted that the level of marketability of senior preferred securities and the entire early-stage enterprise (such as Theranos) are comparable³⁵. The entire early-stage enterprise is less liquid than an established, profitable company due to negative cash flows and a more limited pool of prospective buyers. The senior preferred securities such Series C-1 and C-2 shares in Theranos have significant liquidation preferences in first order of priority ahead of all of other securities, which render them more marketable. In addition, preferred investors typically have access to information that would make it easier to access an exit market for their securities. As such, I have not applied a lack of marketability discount to Series C-1 and C-2 preferred shares as compared to entire value of Theranos' equity.

Valuation Methodologies

59. The appraisal profession generally recognizes three primary approaches to determine value: the income approach, the market approach, and the asset approach. Each approach is distinctive and contains many variations. While all valuation approaches are generally considered, not all may be used; which approach or approaches are used depends upon the specific facts of that engagement.

60. In valuing the Interest in Theranos, I considered several valuation methods:

³⁵ AICPA Practice Aid: Valuation of Privately-Held-Company Equity Securities Issued as Compensation, 2013, Sections 7.18 – 7.19 [accessed via Commerce Clearing House Accounting Research Manager Subscription]

Income Approaches:

Capitalization of Earnings Method

Discounted Cash Flow Method

Market Approaches:

Guideline Public Company Method

Merger and Acquisition Method

Back-Solve Method (Investor Financing)

Asset and Cost Approaches:

Net Asset Value Method

Adjusted Net Asset Value Method

Cost To Recreate Method (Technology and Branding Assets)

61. Income approaches value a company with reference to various measures of the earnings or cash flows generated by that company, with the assumption that such earnings or cash flows sooner or later will be paid out to shareholders in the form of dividends.

62. Market approaches value a company by comparison with transactions in similar

businesses, business interests, or securities.

63. Asset approaches value a company, often one that is capital-intensive, with reference to the stated or calculated net worth of that company, with the assumption that such net worth sooner or later will be paid out to shareholders in liquidation.

64. The focus on liquidation value utilized by asset-based approaches tends to limit their applicability to the value of a non-operating business such as a holding company, early stage enterprises with an unproven product or service, or one that will be liquidated. In the alternative, income and market approaches are most appropriate when valuing ongoing businesses.

Selection of Valuation Methods

65. In valuing Theranos, I considered the methods listed above. I chose the discounted flow method combined with the guideline public company method (to support the Company's exit value), and the adjusted net asset value method combined with the cost to recreate method (for the Company's technology and branding assets) as suitable methods for valuing the Company's equity.

66. As discussed in the appendix to this report, I explain my use of the back-solve method to infer the value Theranos based on certain Series C-2 financing rounds. Because it is my understanding that investors were provided inaccurate information regarding Theranos' business operations and capabilities of its technology, I did not rely on this method to define the value of the Company. The following summarizes the methods considered and my reasoning for my selection.

Capitalization of Earnings Method

67. The capitalization of earnings method is an abridged version of the discounted cash flow method. This method seeks to determine an estimate of value by projecting a single period's expected economic amount and converting that amount to a value by dividing it by a "capitalization rate." The capitalization rate is a derivative of the discount rate, i.e., the

discount rate minus the annually compounded expected growth rate, in perpetuity, of the variable being capitalized.

68. This method is appropriate when the projected single period expected economic amount is indicative of future operations, assuming a normal and constant growth rate. On the Valuation Dates, Theranos was a young pre-profit development stage company that had a small revenue base, and that had not reached long term mature growth levels or margins. The capitalization of earnings method cannot accommodate changing growth rates or margin assumptions in future periods. Accordingly, I did not consider the capitalization of earnings method an appropriate valuation method for Theranos.

Discounted Cash Flow Method

69. The discounted cash flow method is based on the theory that the total value of a business is the present value of the projected future earnings plus the present value of the terminal value. This method requires that a terminal value assumption be made. The amounts of projected earnings and the terminal value are discounted to the present using an appropriate discount rate. The discounted cash flow method relies on the ability of the appraiser and management to reasonably forecast cash flows and assess the risks associated with those cash flows.

70. I was provided with detailed forecasts that reflected management's contemporaneous expectations at the Valuation Dates³⁶. It is my opinion that at the Valuation Dates the

³⁶ The forecasts spanned the 2014 – 2018 calendar years, and were contained in IRC 409A valuation prepared for Theranos by Aranca. The 409A valuation dates were 9/30/13, 12/15/14, and 3/25/15. Email correspondence between the Theranos management team and Aranca indicated that management provided input regarding forecast expectations that were integrated into the valuation approaches [examples include Trial Exhibits 5206, 5085, 3527]

projections in the Aranca 409(a) Reports provided the best estimate of future anticipated operating results that were available on the Valuation dates, and that the discounted cash flow method is an appropriate method for valuing Theranos. I note that I do not consider the Aranca forecasts to represent a realistic estimate of future results for reasons discussed later in this report, they represented the best choice available of management prepared forecasts.

Guideline Public Company Method

71. The guideline public company method develops an estimate of value based on prices at which stocks of similar companies are trading in a public market. The estimate of value is derived by value multipliers such as price to earnings and price to cash flow. These value multipliers are then adjusted and applied to the subject company's fundamental data to reach an estimate of value for the subject company.

72. Application of the guideline public company method requires the selection of sufficient "comparable companies" to facilitate the determination of a value conclusion for the subject company. In selecting comparable guideline companies, "the standard sought is usually one of reasonable and justifiable similarity."³⁷

73. I have not used the guideline public company method to value Theranos as of any of the valuation dates. I did however use this method to estimate the terminal value of Theranos at the end of the projection period in 2018, under the discounted cash flow method. The 2014-2018 forecasts provided to me assume that Theranos will continue to experience high

³⁷ Frank M. Burke Jr., Valuation and Valuation Planning for Closely Held Businesses (Englewood Cliffs, NJ: Prentice-Hall, 1981), p. 49.

revenue growth in 2018, and a standard perpetuity formula for the terminal value cannot accommodate varying future growth rates. In addition, if Theranos were to achieve its forecasts, it would be significantly more comparable at the end of 2018 to the guideline public companies I selected than it is on the Valuation Dates. Accordingly, the guideline public company method is an appropriate method for valuing Theranos as of 12/31/2018, at the end of management and Aranca's forecast horizon.

Merger and Acquisition Method

74. The merger and acquisition method derives an estimate of value of the subject company based on merger and acquisition transactions involving companies or operating units of companies in similar industries to the subject company. I did not apply this method because Theranos did not have meaningful revenues or positive earnings to which valuation multiples could be applied on the Valuation Dates.

The Back-Solve (Investor Transactions) Method

75. I applied the back-solve method to infer the value of Theranos' equity based on purchases by investors of Series C-2 Preferred Stock at \$17 per share. Because it is my understanding that these capital raises were based on misrepresentations to investors regarding the capabilities of the Company's technology and progress with the Company's business model, I did not consider the back-solve method to provide a reliable indication of the Company's fair market value. The implementation of this method is discussed in the appendix to this report.

Net Asset Value Method

76. The net asset value method values a company at the book value of its stockholders' equity. The historical cost bases of assets, however, usually bear very little relationship to true market values. The method only reflects accounting history expressed in nominal dollars and not the potential of a going concern. Because of this limitation inherent in the net asset value method and because I was able to apply more appropriate methods, I did not use the net asset value method to value Theranos.

Adjusted Net Asset Method

77. Under the adjusted net asset method, the assets and liabilities of Theranos are expressed at their current market values with an offsetting adjustment to equity. The adjusted net asset method is generally appropriate for businesses that are early stages of development with unproven products or services (such as Theranos), about to be liquidated, or that have substantial capital investments in tangible assets such as real property. I have used the net asset value method to value Theranos. In applying this method, Theranos' underlying technology and brand intangible assets were adjusted to estimated fair market values by applying the cost to recreate method. This method considers that a buyer of the assets would contemplate the cost of developing such assets as an alternative to purchasing them.³⁸

³⁸ AICPA Practice Aid: Valuation of Privately-Held-Company Equity Securities Issued as Compensation, 2013, Sections 4.42 – 4.44 [accessed via Commerce Clearing House Accounting Research Manager Subscription]

XI. Value of Theranos at February 7, 2014

78. The following discussion describes my process in estimating the fair market value of a 100% equity interest in Theranos as of February 7, 2014.

A. Income Approach – Discounted Cash Flow Method

79. As discussed previously, the discounted cash flow method is based upon the theory that the total value of a business is equal to the present value of the forecast future cash flows plus the present value of the terminal value. The present value determination is based on using a discount rate that reflects the expected rate of return that the market requires in order to attract funds to the particular investment. This rate is often referred to as a company's "cost of capital."

Earnings Base

80. My determination of value was calculated using a free cash flow to invested capital³⁹ earnings base. An invested capital earnings base considers the cash flows of the subject company available to both debt and equity holders, which permits comparability of firms with differing capital structures. For my calculations, I defined debt as all interest-bearing debt, which includes capital leases. These invested capital earnings-based cash flows are calculated for a period through 2018 as shown in Exhibit C.6.

³⁹ Invested Capital is defined as "...the sum of equity and debt in a business enterprise. Debt is typically either (a) all interest-bearing debt or (b) long-term Interest-bearing debt. When the term is used, it should be supplemented by a specific definition in the given valuation context." In the International Glossary of Business Valuation Terms as published in Valuing a Business: The Analysis and Appraisal of Closely Held Companies by Shannon P. Pratt and Alina V. Niculita, 5th Edition, Appendix A, p. 1072.

81. The fair market value of Theranos's invested capital was equal to the present value of Theranos's free cash flow to invested capital. Theranos's free cash flow to invested capital was determined as follows for a five-year period (as shown in Exhibit C.5):

Net Income (after tax, excluding interest expense)

- + Depreciation and Amortization
- +/- Increases or Decreases in Working Capital
 - Capital Expenditures
- Free Cash Flow to Invested Capital

82. For the free cash flow to invested calculation, I established a Weighted Average Cost of Capital ("WACC") using the Modified Capital Asset Pricing Model ("CAPM") for the cost of equity component of the WACC. The terminal value was determined by applying a market derived exit multiple to Theranos' projected revenue and earnings before interest, taxes, depreciation, and amortization ("EBITDA"). The guideline public company peer group selection and analysis to support the terminal value is discussed in the next section of this report.

Selection of Forecasts

83. For purposes of my analysis, I requested from Counsel any available forecasts that the Company prepared in close proximity to the Valuation Dates. The available documents contained forecasts that were provided to investors⁴⁰, forecasts that appeared to be

⁴⁰ Mosley Materials, pp. 370-372, Summary Cap and Projected Income -KRM, pp. 3-5, Theranos Revenue Model_PFM, Trial Exhibit 4859 Projected Statement of Income, 2_SEC-USAO-EPROD-001215410_native

internally prepared for which I did not have record that they were provided to investors⁴¹, and the forecasts contained within the Aranca IRC 409A valuations as of 9/30/13, 12/15/14, and 3/25/15⁴².

84. The forecasts provided to investors who participated in the 2014 and early 2015 financings were much more aggressive in terms of revenue growth than the forecasts applied by Aranca in the same time periods. Because these forecasts are associated with misrepresentations made to investors, and reflect extremely optimistic assumptions regarding near term revenue growth and profitability, I did not consider them reliable for implementing an income approach to the valuation of Theranos.

85. The internally prepared forecasts that I reviewed and did not have evidence as to whether they were provided to investors, contained revenue growth and operating margin assumptions that were very similar to the investor forecasts. I did not consider these forecasts to be reliable for the same reason as that cited above for investor forecasts.

86. The Aranca forecasts contained optimistic assumptions of high revenue growth and above industry operating margins, however their growth assumptions were orders of magnitude lower than those in the investor forecasts. A comparison is contained in Appendix Exhibits B.1 through B.3. Management prepared and accepted these forecasts for purposes of determining the fair market value of Theranos stock, and as a basis for Federal tax reporting for compensatory grants made to employees. In addition, I noted that Theranos'

⁴¹ Projected Statement on Income_Jan 2015, Projected Statement on Income_Jan 2015-1, SEC-USAO-EPROD-000808915, SEC-USAO-EPROD-000809708, SEC-USAO-EPROD-000875621, SEC-USAO-EPROD-001247904, SEC-USAO-EPROD-001519025, 10.08.13 board docs.

⁴² Trial Exhibits 5141, 5190, 5206 Attachment, 5209.

Board of Directors was presented forecasts in October 2013⁴³ that were very similar to those adopted by Aranca in their 9/30/13 409A⁴⁴, and that these forecasts were much lower than those presented to investors in January 2014⁴⁵. Finally, I observed that the Aranca forecasts were relatively consistent across the three IRC 409A reports that I reviewed with valuation dates between September 2013 and March 2015. For all of these reasons, I determined that the Aranca forecasts most closely aligned with management's expectations on the Valuation Dates⁴⁶. I relied on these forecasts as a starting point for applying my discounted cash flow method.

Key Assumptions

87. The key assumptions incorporated in the cash flow forecasts are set forth in Exhibit C.1 to C.3. My assumptions are based balance sheet, income, expense, and capital expenditure forecasts that were developed in communications between Theranos management and Aranca⁴⁷. In vetting these forecasts, I considered the historical operations of Theranos, the Company's stage of development, historical and forecast industry growth information, and economic conditions.

88. My key assumptions as shown in Exhibits C.1 through C.3 and in D.1 are explained as follows:

^{43 10.08.13} Board Docs, pp. 15-16, NUNN_THERANOS_0000665 - 0000666

⁴⁴ Trial Exhibit 5141, p. 59.

⁴⁵ Theranos Revenue Model_PFM (this document contains worksheet tabs that represent the two year forecast provided by Theranos management to PFM in January 2014).

⁴⁶ Despite the Aranca forecasts being the best choice available among management prepared projections, I still considered them overly optimistic for reasons explained in the discount rate selection section of this report.
⁴⁷ Trial Exhibits 3527, 5190.

89. *Revenue:* Revenue was forecast to grow significantly through 2018, at which point it would still be higher than a long-term sustainable level, at 55.6% annual growth. Revenues are based on laboratory test services provided through retail pharmacies, physician's offices, and hospitals. Because Theranos' Edison device was not FDA approved, and could not perform many of the tests offered, the ability to generate these revenues in the near term were dependent on operation of Theranos' laboratories in CA and AZ, with significant use of third party purchased equipment⁴⁸. In the long term, Theranos' ability to successfully capture market share from companies such as Quest Diagnostics was highly dependent on successful development of its device, FDA approval, and ability to deliver a superior alternative to conventional laboratory tests.

90. *Cost of Revenues:* Cost of revenues was forecast to be equal to 35.3% in of revenue in 2014, decreasing to 30% in 2018.

91. *Operating Expenses:* Operating expense levels were forecast to decrease from being significantly greater than revenue in 2014 to 24.7% of revenue in 2018. The forecasted operated expenses and cost of revenues result in an EBITDA margin of 45.3% in 2018 which is significantly above BizMiner and RMA industry medians of 11.2% and 8.8% respectively (Exhibit B.5). In addition, Theranos' forecasted EBITDA margin is more than twice the upper quartile range of the guideline public companies of 20.7% (Exhibit D.2). I did not alter these very optimistic margin assumptions applied by Aranca and Theranos management, however

⁴⁸ Cross-examination of Elizabeth Holmes, 8016:12-8017:25, 8019:4-8020:13.

I did consider this variable in determining the appropriate WACC discount rate to apply to the forecasts.

92. *Capital Expenditures:* Capital expenditures ("Capex") were forecast to decrease from being significantly greater than revenue in 2014 to 11.8% of revenue in 2018. Over the forecast period, the projected capital expenditures significantly exceed industry metrics as a percentage of revenue. The upper quartile of the public company peer group is 6.5% of revenue (Exhibit D.2). I noted that Theranos appeared to classify its Edison "manufactured device" as a fixed asset rather than as consumable inventory. This along with its large investment in manufacturing equipment for the device may explain why the Company required significantly higher capital expenditures than its peer group. This factor also mitigates to a limited extent the Company's very optimistic EBITDA margins as discussed above.

93. *Depreciation and Amortization:* As shown in Exhibit C.3, depreciation was forecast to decrease from significantly greater than revenue to 5.7% in 2018. Projected depreciation is based on an estimated economic life of 7.5 years for new purchases, and 5 years of existing fixed assets. These lives were inferred based on an analysis of historical depreciation and accumulated depreciation relative to cost basis for the Company's fixed assets.

94. Income Tax Rate: I applied a 40% income tax rate which approximates combined CA State and Federal statutory corporate tax rates on the Valuation Dates.

95. Working Capital: Theranos' forecasted working capital was based on the projected difference between current operating assets and operating liabilities adopted by Aranca.

Aranca's analysis did not include required operating cash which I added to the forecasts based on 180 days of operating expenses. This results in working capital stabilizing at 18.6% or revenue in 2018, as shown in Exhibit C.3. This is at the lower bound of the 22.8% to 48.7% range based on industry comparable data.

96. *Exit Multiple - Guideline Public Companies:* The Company's projected high revenue growth rate in 2018 is the reason why I estimated Theranos' terminal value at 12/31/2018 using an exit multiple under the guideline public company method, as shown in Exhibit D.1. Exhibit D.3 outlines the guideline public companies that I deem comparable to Theranos. I selected publicly traded companies that offer medical diagnostic tests in a laboratory setting, or rapid point of care tests outside of laboratory. These selected companies included Quest Diagnostics and Labcorp Diagnostics, which were discussed as comparators in Company management discussions with Mr. Grossman during Partner Fund Management's ("PFM") due diligence for its February 2014 investment in Theranos⁴⁹. I also selected companies that developed diagnostic equipment for medical testing, such as Cepheid or Illumina, which were also discussed as comparators between Mr. Grossman and Theranos management. My selected peer group has a large degree of overlap with the guideline public companies selected by Aranca and Company management for IRC 409A purposes.

97. *Exit Multiple Selection:* In Exhibit D.4, I compare Theranos at the end of the forecast period in 12/31/18 to the guideline public companies for a series of financial metrics, as of the 2/7/2014 Valuation Date. In Exhibit D.2, I have listed financial metrics of the guideline

⁴⁹ Trial testimony of Brian Grossman, November 16, 2021, 6381:5-11.

public companies as of 2/7/2014 and indicated with bordering those combinations of public guideline company and metrics that I consider most comparable to Theranos.

98. If Theranos were to meet its forecasts through 2018, it would be of similar revenue size to the guideline public companies, it would have experienced higher growth in the historical period, it would be expected to realize modestly higher growth in the near future, it would generate higher profit margins than the peer group, and it would require significantly larger capital expenditures to sustain the Company compared to the peer group. I selected a MVIC (market value of invested capital)/Revenue multiple of 6.10x, which is near the mean of the peer group, and significantly above the median and upper quartile. This recognizes the higher assumed profitability and growth of Theranos in 2018 compared to the peer group, uselected 12.60x MVIC/EBITDA multiple that is between the median and lower quartile of the peer group. Theranos' higher profitability is inherent in the EBITDA figure, and should not be reflected in the multiple. In addition, the higher capital expenditure requirements for Theranos have a negative impact on the applicable multiple.

Discount Rate

99. When considering any investment, an investor is exposed to various risks. These include company, industry, economic, market, interest rate, and credit risks. The riskier the investment, the higher the return expected. Discount and capitalization rates, as used in an Income Approach to value a business, represent the return an investor would require in order to choose a particular investment. It represents anticipated future return; past returns, however, are often used to help determine a reasonable future rate.

100. In order to determine the appropriate discount rate that equity investors in Theranos required - the cost of equity of Theranos – I considered several commonly accepted approaches. Two widely used approaches for privately held companies are the Modified Capital Asset Pricing Model ("Modified CAPM"), and the Ibbotson's Build-Up Model. Given the level of risk, and the resulting required rate of return of investor for an early-stage investment such as Theranos, I did not use either of the above methods, and instead estimated Theranos' WACC using venture capital rates of return from several studies that are widely cited.⁵⁰

101.As shown in Exhibit C.4, I selected a venture capital cost of equity of 45%. The next step was to develop a WACC. This was derived by weighting the cost of equity and the after-tax cost of debt by their respective amounts in Theranos's invested capital (based on industry capital structure). Because the industry use of debt was so low (only 3.0% of invested capital), the WACC ended up being 44% (rounded).

102.Table 1 of Exhibit C.4 presents actual rates of return achieved on venture backed portfolio companies at different stages of development, and over different time horizons. The annual rates of return for a Seed/Early-Stage company such as Theranos are 25.5% to 34.9% over a 10-year period. Such returns are appropriate if a forecast reflects expected value, which is a weighted average of possible future results. The Aranca forecasts I adopted are the most realistic version that was available in the documents that I reviewed, but they do not represent expected value.

⁵⁰ See footnotes 1 through 7 of Exhibit C.7.

103. The Aranca forecasts do not consider downside risk, and early-stage companies face significant statistical risk of failure or under-performance⁵¹. In addition, the forecasted revenues are predicated on Theranos' ability to implement on its vision to offer very broad array of faster, lower cost, more accurate tests in a miniaturized device that would displace traditional labs such as Quest Diagnostics. As discussed in the background section to this report, this vision was unrealized on the Valuation Dates and the Company faced significant remaining development risk. I further note that the Edison was not FDA approved, and Theranos lab operations were likely not in compliance with CLIA quality standards on all of the Valuation Dates⁵², and the forecasts assumed that Theranos would realize outsized 45% EBITDA margins that were far above industry norms. For all of these reasons, the Aranca forecasts did not reflect expected value, and therefore the applicable rate of return required an upwards adjustment to those demonstrated in Table 1 of Exhibit C.4.

104. Tables 2 and 3 of Exhibit C.4 demonstrate *target* rates of return; the returns expected by Venture Capital investors if the investment is successful. These higher *target* rates of return (compared to *actual* returns) compensate for downside risk that is not included in a "success scenario" forecast such as the one applied by Aranca that I relied upon. The range of most target annual rates of return for Seed, Start-up and "early development" companies such as Theranos on the Valuation Dates is between *28% and 75%*. When I derived the implied

⁵¹ AICPA Accounting and Valuation Guide, Valuation of Portfolio Company Investments of Venture Capital and Private Equity Funds and Other Investment Companies, May 1, 2019, Part II- Appendixes A-C, B.04.04. Also refer to graphic entitled "Venture Capital is an Unusual Creature" directly following this section. ⁵² Therano-no: Key CLIA Compliance Issues, Loyola University Chicago School of Law, May 5, 2022. http://blogs.luc.edu/compliance/?p=4681

annual rates of return that would reconcile forecasts provided by Theranos to investors to prices paid by those same investors in 2014 and 2015⁵³, the resulting range was similar at *36% to 82%* (Exhibit C.4). Based on this data for target rates of return applicable to Theranos on the Valuation Dates, I selected a cost of equity of 45% with a resulting WACC of 44%. My cost of equity selection is in the low end of the applicable target rates of return, as well as those inferred from investor forecasts. This favorable assumption results in a higher value for a Theranos, and a lower calculated investor loss.

105.Utilizing a discounted cash flow to invested capital method with a WACC of 44.0%, I derived an estimate of value for Theranos of **\$431 million** (rounded), on a 100% -controlling, marketable interest basis, as shown in Exhibit C.6. This is inclusive of Series C-1 and C-2 financing proceeds through 2/7/2014 not included on the 12/31/2013 balance sheet. This is also net of interest-bearing debt.

B. Asset Approach - Adjusted Net Asset Value

106.In Exhibit E.1, I have estimated the value of Theranos using the adjusted net asset value method combined with a cost to recreate approach for Theranos' technology and branding assets. The basis for application of this method is that Theranos was a near pre-revenue⁵⁴, pre-profit early-stage company with largely unproven technology on the Valuation Dates. The Company's stage of development renders going concern income and market approaches

⁵³ Please refer to Appendix for an explanation of reconciliation of discounted cash flow approaches based on forecasts provided to investors, to the \$17 per share they agreed to invest at for Theranos Series C-2 Preferred Stock.

⁵⁴ Theranos had revenues of \$116,000 and \$391,000 in calendar years 2014 and 2015, which were far below its near-term management forecast expectations.

to valuation less reliable, as future results may deviate significantly from forecasted expectations, due to development delays, technical failures, inability to obtain regulatory approvals, low market adoption and other factors. For such early-stage companies, adjusted net asset approaches are often applied, which reflect the fair market value of the company's assets less its liabilities. In addition, intangible assets of such early-stage companies are often measured through cost approaches⁵⁵, which measure the cost to obtain or reproduce functionally similar or identical assets.

107.I started with Theranos' 12/1/2013 balance sheet and made three adjustments. I have added to cash those Series C-1 and C-2 financing proceeds through 2/7/2014 not included on the 12/31/2013 balance sheet. I have removed from other current liabilities the "miscellaneous receipts" liability that represents proceeds from the 2013 capital raises for which stock was not yet issued (for the reasons explained earlier in this report). Finally, I added the value of Theranos' technology and branding assets, which I have estimated using the cost to recreate method, as shown in Exhibit E.2.

108.In Exhibit E.2, I have categorized Theranos' historical operating expenses based on trial balances prepared by the Company. My objective was to include any historical expenses that related to development of Theranos' technology, and to developing recognition of the Theranos brand⁵⁶. I excluded any expenses that related to capital raising for Theranos, as

⁵⁵ AICPA Intangible Asset Valuation Cost Approach Methods and Procedures, p.25. Reasons to use the cost approach include "if the subject intangible asset is not the type of asset that generates a measurable amount of income".

⁵⁶ Inclusion of expenditures related to developing Theranos brand recognition is favorable to the Company's value as it ignores the impact of management misrepresentations made to investors and business partners that would damage the brand and potentially render it worthless.

this would not create an intangible asset, and the cash proceeds of capital raises are included in my adjusted net asset method. Theranos' largest categories of operating expenses such as salaries and wages did not include functional allocations to categories research and development, capital raising and investor relations, and general and administrative support. In such instances, I made a favorable assumption by including all expenses in my cost approach. This results in a higher valuation for Theranos and a lower calculated investor loss.

109.Exhibit E.2 details my allocations of historical costs incurred by Theranos to the value of its technology and brand, and they result in capture of over 95% of Theranos operating expenses between 2004 and the Valuation Dates. I have then grown the allocated expenses at historical inflation rates to the Valuation Dates, deducted a 4% functional obsolescence adjustment which represents 50% of 2004-2006 expenses⁵⁷, and added a 14% developer profit margin⁵⁸ to result in a cost to recreate value for Theranos' technology and brand of \$340.370 million. My valuation of Theranos' technology and brand through a cost approach makes a favorable assumption that the Company's significant historical expenditures into these assets have been productively spent, and that less than 5% of these expenditures are obsolete on the valuation date. The final step was to integrate this value into the adjusted net asset approach in Exhibit E.1 to result in a value of Theranos' equity of **\$378 million** (rounded) as of the 2/7/2014 Valuation Date.

⁵⁷ It is my understanding that Theranos began development of the Edison in 2007, and carried forward some of the technology from the prior version of its device.

⁵⁸ This is based on the upper quartile of the guideline public company peer group EBIT margins in Exhibit D.2.

C. Conclusion of 100% Equity Value

110. My analysis results in a fair market value of Theranos on the 2/7/2014 Valuation Date in the range of **\$378 million to \$431 million** per Exhibit A.3. Allocation of these values to the different share classes (including Series C-2 Preferred Stock), warrants and options is also shown in Exhibit A.3, based on the equity allocation models developed in Exhibits L.1 and L.2, and Exhibits M.1 and M.2 which explained in the following section.

D. Equity Allocation Models

111.After I concluded my estimate of Theranos' entire equity value, I allocated the Company's value to its capital structure. The methodology that is commonly applied to allocate value to a complex capital structure for a going concern business is the option pricing equity allocation model ("OPM"), where common stock and each security in a company are treated as a call option on total company value.⁵⁹ The OPM will model future possible exit values for the company on a lognormal (bell shaped) distribution curve,⁶⁰ based on an estimated current equity value for the company, and an estimated volatility of the company's equity in the future. The key inputs that the OPM requires to estimate a distribution of future possible exit values from a liquidity event include equity value on the valuation date, a risk-free rate of return, an estimated term to a future liquidity event, and an estimated volatility of the underlying equity value of the company. The higher the

 ⁵⁹ AICPA Practice Aid: Valuation of Privately-Held-Company Equity Securities Issued as Compensation, 2013,
 Sections 6.30 – 6.41. [accessed via Commerce Clearing House Accounting Research Manager Subscription]
 ⁶⁰ The distribution of percentage returns on the stock are normally distributed in the option pricing model, creating a symmetrical bell shaped curve. The distribution of stock prices (or company exit values) are lognormally distributed creating a bell shaped curve that is asymmetrical, with a longer tail on the right side of the curve. This occurs because as stock prices are constrained at zero on the left side of the curve, they cannot become negative.

volatility input and the longer the term to liquidity, the more widely dispersed will be the resulting possible exit values on the bell-shaped distribution curve.

112. The OPM considers the rights and preferences of each security, and at each possible future total exit value (typically from an IPO or sale of the company) it will allocate proceeds from that exit value to each class of securities. At high exit values, preferred stock will convert to common⁶¹. At low exit values preferred stock will not convert to retain their liquidation preferences that exceed the value of common stock. At very low exit values, there may be zero payout to common stock and the preferred securities may not recover their full liquidation preferences. As a final step, the OPM will aggregate all the payouts to each security under future possible exits to determine the probability weighted present value of each class of securities. All the securities will sum to the total value of the company on the valuation date.

113.1 applied the OPM to allocate Theranos' equity value to its securities, taking into account the first priority liquidation preferences of Series C, C-1 and C-2⁶², the second priority liquidation preferences of Series A and B⁶³, and the fact that all preferred stock had participation rights with common stock in a liquidity event⁶⁴. I estimated an approximate 4 year term to a liquidity event from the 2/7/2014 Valuation Date based on observation that

⁶¹ In the case of Theranos, preferred stock retains participation rights with common stock. Preferred stock holders receive their liquidation preferences + equal sharing with common stock in any residual exit value that exceeds these preferences.

 ⁶² Series C, C-1, C-2 preferred stock are repaid first in a liquidation or sale of the company, for an amount equal to their initial investment prices of \$0.564, \$3.00 & \$15.00, and \$17.00 respectively. [Articles_Jan 2014, pp. 5-6, *Liquidation Rights*. Certificate of Designation of Series C-2 Preferred Stock_2014.02.07, pp. 1-2, *Liquidation Rights*]
 ⁶³ Series A, B preferred stock are repaid second in a liquidation or sale of the company, for an amount equal to their initial investment prices of \$\$0.15 and \$0.1846 respectively. [Articles_Jan 2014, pp. 5-6, *Liquidation Rights*]
 ⁶⁴ All preferred stock share in any remaining residual liquidation or sale value equally with common stock without having to convert to common stock. [Articles_Jan 2014, pp. 5-6, *Liquidation Rights*]

the Company's forecasts estimated mature operating profit margins between 2017 and 2018, that the Company would become more attractive and saleable to an industry buyer within that timeframe, that Aranca in their discussions with management had assumed a company exit in 2018, and a 4 year term to liquidity in their 12/15/14 IRC 409A valuation. 114. Another significant input into the OPM is an estimate of Theranos' future equity volatility between the Valuation Dates and the date of the estimated liquidity event. I analyzed the asset and equity volatilities of the same 22 guideline public company peer group discussed earlier in this report. The median and average asset volatility of the peer group was between 39% and 40%, and the upper quartile was 47% per Exhibit R.1. I selected an asset volatility of 50% for Theranos, taking into account that it was earlier stage and significantly smaller than the peer group companies as measured by revenues and market value. Earlier stage companies are generally more volatile due to higher remaining development and implementation risks. This is confirmed by the smallest companies in the public peer group having asset volatilities that range between 47% and 101%. My final step was to calculate the corresponding equity volatility of 55% for Theranos given the proportion of financing debt and equity in its capital structure.

115.My analysis results in a range of per share values on a controlling marketable basis for Theranos securities on the 2/7/14 Valuation Date shown in the lower section of Exhibit A.3.

XII. Value of Theranos at December 31, 2014

116. Using the same adjusted net asset value and discounted cash flow methods as those used to value Theranos at the 2/7/2014 Valuation Date, including identical Aranca IRC 409A

forecasts, the resulting fair market value of Theranos's equity on the 12/31/2014 Valuation Date was in the range **\$827 million** to **\$951 million** as shown in Exhibit A.4. Allocation of these values to the different share classes, warrants and options is also shown in Exhibit A.4, based on the equity allocation models developed in Exhibits N.1 and N.2, and Exhibits O.1 and O.2. The volatility used in the equity allocations was developed in Exhibit R.2.

117. The discounted cash flow and guideline public company methods are outlined in Exhibits F and G respectively. The adjusted net asset method combined with the cost to recreate method are outlined in Exhibits H.1 and H.2.

XIII. Value of Theranos at October 15, 2015

118. Using the same adjusted net asset value and the discounted cash flow methods as those used to value Theranos at the 2/7/2014 Valuation Date, which included nearly identical Aranca IRC 409A forecasts⁶⁵, the resulting fair market value of Theranos on the 10/15/2015 Valuation Date was in the range of **\$1,051 million** to **\$1,184 million** as shown in Exhibit A.5. Allocation of these values to the different share classes, warrants and options is also shown in Exhibit A.5, based on the equity allocation models developed in Exhibits P.1 and P.2, and Exhibits Q.1 and Q.2. The volatility used in the equity allocations was developed in Exhibit R.3.

⁶⁵ I applied the Aranca 3/25/15 IRC 409A forecasts to this valuation date, which are nearly identical to the 12/15/14 IRC 409A forecasts.

119. The discounted cash flow and guideline public company methods are outlined in

Exhibits I and J respectively. The adjusted net asset method combined with the cost to

recreate method are outlined in Exhibits K.1 and K.2.

XIV. Conclusion of Values

120.. A summary of my estimated fair market values is outlined below, and these include

the Company's substantial cash balances:

100% Company Equity Value Range (In Thousands)					Cash Balance Included in Equity Value (Thousands)		Series C-1 Per Share Value Range				Series C-2 Per Share Value Range				Valuation Date	Report Exhibit	
\$	378,000	1	\$	431,000	\$ 151,912	\$	8.77	2	\$	9.39	\$	9.90	÷	\$ 10.59	02-07-14	Exhibit A.3	
\$	827,000	-	\$	951,000	\$	465,933	\$	9.61	-	\$	10.36	\$	10.80	÷	\$ 11.63	12-31-14	Exhibit A.4
\$	1,051,000	-	\$	1,184,000	\$	496,919	\$	10.14	-	\$	10.81	\$	11.37		\$ 12.11	10-15-15	Exhibit A.5

121. The aggregate Series C-1 and C-2 investor losses based on the Company values in the tables above range between **\$277.964 million** and **\$315.884 million** per Exhibit A.1 to this report. I have been asked to prepare an alternate calculation of investor loss based on my estimated values as of only the 10/15/2015 Valuation Date, which results in a range of aggregate loss between **\$237.323 million** and **\$273.646 million**.

Dated: September 8, 2022

Carl S. Saba, MBA, CVA, ASA, ABV

XV. Appendix

A. Investor Financings – Back-solve Methods

122.There are two general processes for establishing the value of an enterprise and its associated classes of stock. The first is a top-down process that establishes the fair market value of the enterprise and then allocates this value among the various classes of equity. The second, and the way that I used under the back-solve method, is a bottom-up process that uses the pricing of a recent stock transaction to infer the value of the other classes of equity. This in turn establishes an implied total equity value for the subject company. Inferring value from investments in a company is a form of the market approach referred to as the back-solve method. This approach is frequently applied to early stage companies and is discussed in the AlCPA Practice Aid on *Valuation of Privately-Held-Company Equity*. *Securities Issued as Compensation.* The back-solve method utilizes the same OPM framework discussed earlier in this report that I used to allocate my estimated values for Theranos to its securities.

123.I applied the back-solve method with the same OPM assumptions used for the equity allocation models previously described on the three Valuation Dates. The primary difference in this analysis is that I did not have an established value for Theranos' equity. I instead solved for the implied value of Theranos' equity based on the \$17.00 per share paid by Series C-2 investors throughout 2014. I performed this analysis as of the 2/7/14 Valuation Date, and 12/31/14 Valuation Date. In addition, I approximated the implied equity value of Theranos as of 2/13/15, the investment date for Mr. Murdoch, by adding his \$125 million investment amount to the 12/31/14 back-solve value. The resulting implied equity values for Theranos based on investor pricing of Series C-2 preferred stock is \$1,510 million, \$2,250 million and \$2,375 million⁶⁶ as of 2/7/14, 12/31/14, and 2/13/15 respectively (Appendix Exhibit A). The supporting back-solve models are contained in the Appendix Exhibits C.1 – C.3, and D.1 – D.3 respectively for the first two valuation dates.

B. Investor Forecasts - DCF Models

124.As part of my analysis, I have also reviewed the forecasts provided to investors as part of their due diligence process at various points in time in the period from February 2014 to April 2015. As discussed earlier in this report, the forecasts provided to investors presented revenue growth rates and thresholds that were orders of magnitude higher than those provided to Aranca for IRC 409A purposes (and also shared with the Theranos Board in October 2013) in the same approximate time frame. The comparison of revenues, gross margin, and EBITDA margin between forecasts provided to investors vs. Aranca is contained in Appendix Exhibits B.1 – B.3. An example of the significant discrepancies is a comparison of projected revenues in Exhibit B.1 for calendar year 2015. Forecasts provided to investors assumed Theranos' revenue would range between \$990 million and \$1,677 million, which is approximately *9 to 15 times higher* than the forecasts provided to Aranca with revenues of \$112 to \$113 million.

⁶⁶ These are not my opinions of the equity value of Theranos, they represent the values assigned to the Company based on investors' willingness to pay the \$17 per share for Series C-2 preferred offered by Theranos management. There are a number of references in press articles to a valuation for Theranos of approximately \$9 billion in this timeframe. My inferred values are substantially lower due to the back-solve model's recognition of superior economic rights (such as liquidation preferences) to Series C-2 preferred stock as compared to all other inferior securities. The approximate \$9 billion figure can be achieved by multiplying *all* shares outstanding for Theranos on these dates by the \$17 per share paid for Series C-2. This simplified post-money approach would incorrectly assume that all securities have equal value to the most senior Series C-2 preferred stock.

125.Given that investors reviewed the forecasts provided to them as one of the factors that they considered in their decision to invest in Series C-2 at \$17 per share, I considered that it would be informative to estimate the implied annual rates of return that investors placed on those forecasts, and to compare those rates of return to the target VC rates of return study data. This would provide additional information to consider in selecting my discount rate for the income approach described in the main section of this report.

126.I applied income approaches with a market derived exit multiple (similar to that discussed in the main section of this report) using the following investor forecasts:

- Management prepared two-year forecasts provided to PFM in January 2014 for their 2/7/14 investment (Appendix Exhibit E.1 E.3).
- Financial model developed by PFM based on the management forecasts above, which
 extend the two-year forecast horizon to a ten year period. I relied on PFM's "base case"
 version of the model (Appendix Exhibit E.4 E.5).
- Management prepared two-year forecasts provided to Daniel Mosley and RDV
 Corporation for their October 2014 investment (Appendix Exhibit F.1 -F.3).
- Management prepared two-year forecasts provided to Rupert Murdoch for his February 2015 investment (Appendix Exhibit G.1 – G.3).

127.In each instance, I translated the investor two-year forecasts into a discounted cash flow method, and estimated a market exit multiple of revenue or EBITDA applicable to Theranos at the end each forecast period (similar to that described in the main section of this report). For the PFM financial model, I did not apply a market exit multiple as the forecast horizon was extended far enough to allow for Theranos to reach steady state growth rates and margins. This allowed me to apply a standard perpetuity formula to capture all cash flows that would follow the discrete forecast period.

128.My final step was to solve for the rate of return that would be required to reconcile the Theranos equity value resulting from investor forecast discounted cash flow methods to the back-solve values of Theranos from investor pricing discussed earlier. That reconciliation is shown on Exhibit A, and results in annual rates of return on investor proceeds ranging from 36% to 82%. As discussed in the section of this report where I explained my selection of the discount rate under the income approach, these rates of return are generally consistent with target VC rates of return study data for companies at early stages of development (refer to Exhibit C.4 for comparison).

C. Assumptions and Limiting Conditions

In addition to those cited elsewhere in this report, other assumptions and limiting conditions pertaining to the estimate of value stated in this report are summarized below.

- The estimates of value arrived at herein are valid only for the stated purpose as of the dates of the valuations.
- Public information and industry and statistical information have been obtained from sources I believe to be reliable. However, I make no representation as to the accuracy or completeness of such information and have performed no procedures to corroborate the information.
- No change of any item in this report shall be made by anyone other than Hemming Morse,
 LLP, and I shall have no responsibility for any unauthorized change.
- 4. I have not conducted interviews with the management of Theranos concerning the past, present, and prospective operating results of the Company. I have instead relied upon materials itemized in Appendix Exhibit I, Evidence Relied Upon in the determination of my opinions of value.
- 5. This report reflects facts and conditions existing at the Valuation Dates. Subsequent events have not been considered unless they evidence facts and circumstances that were known or knowable on the Valuation Dates, and I have no obligation to update my report for such events.
- This report is designed to give estimates of value. It does not purport to be a comprehensive list of all of the considerations undertaken in order to arrive at my estimates

of value. It is not an accounting report, and it should not be relied on to disclose unreported assets or liabilities, or to verify financial reporting.

7. This report contains a review and discussion of information contained in trial balances, financial statements, and tax returns prepared by Theranos. The majority of this financial data is not CPA Audited, Reviewed, or Compiled. I have applied some procedures to corroborate financial information on the Company between different sources, and have generally assumed this information to be a reliable representation of Theranos' books and records.

D. Certifications and Representation

I certify and represent that, to the best of my knowledge and belief:

- 1. the statements of fact in this report are true and correct;
- the reported analyses, opinions, and conclusions are limited only by the reported assumptions and limiting conditions, and are my personal, unbiased professional analyses, opinions, and conclusions;
- Hemming Morse, LLP and its employees have no present or prospective interest in or bias with respect to the property that is the subject of this report, and the employees of Hemming Morse, LLP and I have no personal interest or bias with respect to the parties involved;
- 4. I have performed no services, as an appraiser or in any other capacity, regarding the property that is the subject of this report within the three-year period immediately preceding acceptance of this assignment;
- my engagement in this assignment was not contingent upon developing or reporting predetermined results;
- 6. my fee for completing this assignment is not contingent upon the development or reporting of a predetermined values or direction in values that favor the cause of the client, the amount of the value opinions, the attainment of stipulated results, or the occurrence of any subsequent events directly related to the intended use of this appraisal;

- 7. my analyses, opinions, and conclusions were developed, and this report has been prepared in conformity with Uniform Standards of Professional Appraisal Practice and with the American Institute of Certified Public Accountants' Statement on Standards for Valuation Services No. 1 ("SSVS");
- Brian Zacharias, Claudia Stern, and Sacha Zadmehran provided significant business and/or intangible asset appraisal assistance to the person signing this certification/representation;
- the analyses, opinions, and conclusions of value included in the valuation report are subject to the specified assumptions and limiting conditions, and they are the personal analyses, opinions, and conclusions of value of the valuation analyst;
- 10. the economic and industry data included in the valuation report have been obtained from various printed or electronic reference sources that the valuation analyst believes to be reliable. The valuation analyst has not performed any corroborating procedures to substantiate that data;
- 11. the parties, for whom the information and use of the valuation report is restricted, are identified; the valuation report is not intended to be and should not be used by anyone other than such parties;
- 12. I have no obligation to update the report or the opinions of value for information that comes to my attention after the date of the report;

Dated: September 8, 2022

Carl S. Saba, MBA, CVA, ASA, ABV

XVI. Exhibit List

Investor Loss Calculation	Exhibit A.1
Series C-1 & C-2 Investor Details List	Exhibit A.2
Value Summary 2/7/14	Exhibit A.3
Value Summary 12/31/14	Exhibit A.4
Value Summary 10/15/15	Exhibit A.5
value cananary for or to	
2/7/2014 Valuation Date	
Historical Balance Sheets	Exhibit B.1
Historical Income Statements	Exhibit B.2
Adjustments to Financial Statements	Exhibit B.3
Adjusted Balance Sheets	Exhibit B.4
Adjusted Income Statements	Exhibit B.5
Comparative Financial Ratios	Exhibit B.6
	C11404
Discounted Cash Flow Key Assumptions	Exhibit C.1
Adjusted Working Capital Analysis	Exhibit C.2
Depreciation & Capital Expenditure Analysis	Exhibit C.3
Discount Rate - Venture Capital Rates of Return	Exhibit C.4
Forecast Free Cash Flow to Invested Capital	Exhibit C.5
Discounted Cash Flow Method Value Summary	Exhibit C.6
Guideline Public Company Method	Exhibit D.1
Guideline Public Company Key Financial Ratios	Exhibit D.2
Guideline Public Company Descriptions	Exhibit D.3
Guideline Public Company Ranking	Exhibit D.4
Adjusted Net Asset Value	Exhibit E.1
Cost to Recreate Method - Technology and Branding Assets	Exhibit E.2
Boar to Necreate Method - recimology and branding Assess	Extindit E.E.
12/31/2014 Valuation Date	
Discounted Cash Flow Key Assumptions	Exhibit F.1
Adjusted Working Capital Analysis	Exhibit F.2
Depreciation & Capital Expenditure Analysis	Exhibit F.3
Discount Rate - Venture Capital Rates of Return	Exhibit F.4
Forecast Free Cash Flow to Invested Capital	Exhibit F.5
Discounted Cash Flow Method Value Summary	Exhibit F.6
Cuideline Bublic Company Mathed	Exhibit G.1
Guideline Public Company Method	Exhibit G.2
Guideline Public Company Key Financial Ratios	Exhibit G.3
Guideline Public Company Descriptions Guideline Public Company Ranking	Exhibit G.4
Adjusted Net Asset Value	Exhibit H.1
Cost to Recreate Method - Technology and Branding Assets	Exhibit H.2
121121212121211	
10/15/2015 Valuation Date	210007
Discounted Cash Flow Key Assumptions	Exhibit I.1
Adjusted Working Capital Analysis	Exhibit I.2
Depreciation & Capital Expenditure Analysis	Exhibit I.3
Discount Rate - Venture Capital Rates of Return	Exhibit I.4
Forecast Free Cash Flow to Invested Capital	Exhibit I.5
Discounted Cash Flow Method Value Summary	Exhibit I.6
Guideline Public Company Method	Exhibit J.1
Guideline Public Company Key Financial Ratios	Exhibit J.2
Guideline Public Company Descriptions	Exhibit J.3
Guideline Public Company Ranking	Exhibit J.4

Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 60 of 156

Adjusted Net Asset Value Cost to Recreate Method - Technology and Branding Assets

Equity Allocation Models

NAV Equity Allocation 2/7/14 - Step 1 NAV Equity Allocation 2/7/14 - Step 2

DCF Equity Allocation 2/7/14 - Step 1 DCF Equity Allocation 2/7/14 - Step 2

NAV Equity Allocation 12/31/14 - Step 1 NAV Equity Allocation 12/31/14 - Step 2

DCF Equity Allocation 2/7/14 - Step 1 DCF Equity Allocation 2/7/14 - Step 2

NAV Equity Allocation 10/15/15 - Step 1 NAV Equity Allocation 10/15/15 - Step 2

DCF Equity Allocation 10/15/15 - Step 1 DCF Equity Allocation 10/15/15 - Step 2

Volatility Models

Volatility Analysis 2/7/14 Volatility Analysis 12/31/14 Volatility Analysis 10/15/15

Appendix

Summary of Investor Values

Summary of Revenue Forecasts Summary of Gross Profit Forecasts Summary of EBITDA Forecasts

Backsolve Method Value Summary 2/7/14 Backsolve Method 2/7/14 - Step 1 Backsolve Method 2/7/14 - Step 2

Backsolve Method Value Summary 12/31/14 Backsolve Method 12/31/14 - Step 1 Backsolve Method 12/31/14 - Step 2

PFM Forecast - Depreciation & Capital Expenditure Analysis PFM Forecast Free Cash Flow to Invested Capital PFM Forecast - Discounted Cash Flow Method

PFM (Base Model) Forecast Free Cash Flow to Invested Capital PFM (Base Model) Forecast - Discounted Cash Flow Method

Mosley-RDV Forecast - Depreciation & Capital Expenditure Analysis Mosley-RDV Forecast Free Cash Flow to Invested Capital Mosley-RDV Forecast - Discounted Cash Flow Method

Murdoch Forecast - Depreciation & Capital Expenditure Analysis Murdoch Forecast Free Cash Flow to Invested Capital Murdoch Forecast - Discounted Cash Flow Method

Carl Saba Curriculum Vitae

Documents Considered or Relied Upon

Exhibit K.1 Exhibit K.2 Exhibit L.1 Exhibit L.2 Exhibit M.1 Exhibit M.2 Exhibit N.1 Exhibit N.2 Exhibit 0.1 Exhibit 0.2 Exhibit P.1 Exhibit P.2 Exhibit Q.1 Exhibit Q.2 Exhibit R.1 Exhibit R.2 Exhibit R.3 Appendix Exhibit A Appendix Exhibit B.1 Appendix Exhibit B.2 Appendix Exhibit B.3 Appendix Exhibit C.1 Appendix Exhibit C.2 Appendix Exhibit C.3 Appendix Exhibit D 1 Appendix Exhibit D.2 Appendix Exhibit D.3 Appendix Exhibit E.1 Appendix Exhibit E.2 Appendix Exhibit E.3 Appendix Exhibit E.4 Appendix Exhibit E.5 Appendix Exhibit F.1 Appendix Exhibit F.2 Appendix Exhibit F.3 Appendix Exhibit G.1 Appendix Exhibit G.2 Appendix Exhibit G.3 Appendix Exhibit H Appendix Exhibit I

Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 61 of 156

r Loss Calcu (l	nvesto						_		_		a.	n of Theranos, Inc
Range [3] High	Value -	Investor Loss		Series C-2 Purchase Price	Series C-1 Purchase Price	h Value	Hig	w Value		Series C-2 Shares [2]	Series C-1 Shares [1]	Incremental Loss Date
68,689,53	- \$	62,004,902	\$	\$ 17.00		10.59	\$	9,90	\$	9,669,998		2/7/2014
46,740,48		42,100,107			15.00	9.39		8.77			7,500,032	2/7/2014
143,386,65	-	124,318,072		17.00	N/A	11.63		10.80		32,808,227	N/A	12/31/2014
57,067,78	2	49,541,379		17.00	N/A	12.11		11.37		42,947,639	N/A	10/15/2015
315,884,46	- <u>\$</u>	277,964,460	\$	Total Loss								
31,923,06	\$	27,479,453	\$		\$ 15.00	10.81		10.14			6,563,232	10/15/2015
241,722,75	2	209,843,062	_	17.00		12.11		11.37		42,947,639		10/15/2015

Notes:

[1] Preferred Series C-1 shares with an issue price and liquidation preference of \$15.0 per share.

[2] Preferred Series C-2 shares with an issue price and liquidation preference of \$17.0 per share.

[3] Losses calculated at each date based on incremental increase in share count relative to prior date.

[4] The alternate calculation measures loss based on the value of all Series C-1 and C-2 shares as of 10/15/15, rather than the valuation date closest to when the investment was made.

[5] Share counts presented above do not include shares held by Defendant.



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 62 of 156

US v. Elizabeth Holmes Valuation of Theranos, Inc.

Exhibit A.2 Series C-1 & C-2 Investor Details List

(USD)

Investor Name	Class of Stock	Certificate Date	Shares		Amount	P	rice Paid Per Share	Fair	Market V	/alu	e Per	Share	Inve	estor	Loss	Notes
Walgreen	Series C-2	01/07/14	2,941,176	5	49,999,992	\$	17.00	\$	9.90		s	10.59	\$ 18,859,086	2	\$ 20,892,249	Convertible Note
CENTRAL VALLEY ADMINISTRATORS INC	Series C-2	02/07/14	294,117		4,999,989		17.00	2.1	9.90	х.	2.1	10.59	1,885,905	-	2,089,221	Contentione Hou
PARTNER INVESTMENTS, LP	Series C-2	02/07/14	3,263,529		55,479,993		17.00		9 90	21		10,59			23,182,041	
PEER VENTURES GROUP IV L.P.	Series C-2	02/07/14	779,411		13,249,987		17.00		9.90	ч.		10.59	4,997,654		5,536,442	
PFM HEALTHCARE MASTER FUND, LP	Series C-2	02/07/14	2,255,096		38,336,632		17.00		9.90	ç.,		10.59		21	16,018,772	
PFM HEALTHCARE PRINCIPALS FUND, LP	Series C-2	02/07/14	136,669		2,323,373		17.00		9.90	G.,		10 59	876,334		970,810	
RILEY P. BECHTEL & SUSAN P. BECHTEL	Series C-2	03/18/14	8,823		149,991		17.00		10.80	č.,		11.63	47,405		54,676	
RILEY P. BECHTEL & SUSAN P. BECHTEL	Series C-2	03/18/14	291,177		4,950,009		17.00		10.80	ā.,		11.63	1,564,448		1,804,412	
ANDREAS C. DRACOPOULOS	Series C-2	10/31/14	1,470,588		24,999,996		17.00		10.80	9		11.63	7,901,238		9,113,174	
LAKESHORE CAPTL MGMT	Series C-2	10/31/14	5,882,352		99,999,984		17 00		10.80	5		11.63	31,604,954	2	36,452,695	
MOSLEY FAMILY HOLDINGS LLC	Series C-2	10/31/14	352,941		5,999,997		17.00		10.80	Ξ.		11.63				
Cox Investment Holdings, Inc.	Series C-2	11/03/14	5,882,352		90,999,984		17.00		10.80	Ξ.		11.63	1,890,297		2,187,161	
MADRONE PARTNERS, LP	Series C-2	12/15/14	5,882,352		99,999,984					÷.			10 M M M M M M M M M M M M M M M M M M M	2	36,452,695	
SODA SPRING PARTNERS, LP	Series C-2	12/15/14	2,941,176				17.00		10,80			11.63	31,604,954	1	36,452,695	
					49,999,992		17.00		10.80	Э.		11.63	and the second second	÷.,	18,226,347	
THE HENRY A. KISSINGER 2014	Series C-2	12/15/14	176,470		2,999,990		17.00		10.80	2		11.63	948,146		1,093,577	
BENDEL FUND	Series C-2	12/31/14	249,998		4,249,966		17.00		10.80	2		11.63	101-10-02 D	-	1,549,227	
C.R. Murdoch	Series C-2	02/13/15	7,352,941		124,999,997		17.00		11.37			12,11	35,926,623	± 2	41,384,653	
David Boies	Series C-2	03/06/15	17,647		299,999		17.00		11.37			12:11			99,323	
OSon Investments M Ltd.	Series C-2	03/30/15	1,058,823		17,999,991		17.00		11.37	Υ.		12.11	5,173,431	÷	5,959,387	
EOSon Investments N Ltd.	Series C-2	03/30/15	117,647		1,999,999		17.00		11.37	4		12.11	374,826	31	662,154	
Robert Kraft Attn. Michael Joyce	Series C-2	03/31/15	58,823		999,991		17.00		11,37			12.11	287,410		331,074	
NMOBILIARIA CARSO, SA de CV	Series C-2	04/16/15	1,764,705		29,999,985		17.00		11.37	ч.		12.11	8,622,386		9,932,312	
		TOTAL	43,178,813	5	734,039,821	-		-					\$ 236,993,874		\$ 270,445,096	[1]
Safeway	Series C-1		1.000.000			đ		ġ.,				5				
		08/19/11	1,000,000	\$	15,000,000	\$		\$	8 77	3	S	9.39	5 5,613,324		\$ 6,232,038	Convertible Not
Walgreen	Series C-1	06/14/12	2,000,000		30,000,000		15.00		8.77	э.		9.19		8.1	12,464,077	Convertible Not
George Shultz	Series C-1	02/19/13	200,000		3,000,000		15.00		8.77	2		9.39	1,122,665	÷ .	1,246,408	
PEER VENTURES GROUP IV. L.P	Series C-1	06/10/13	1,180,000		17,700,000		15.00		8.77	÷		9 39	6,623,722		7,353,805	
Richard Kovacevich	Series C-1	08/01/13	10,000		150.000		15.00		8.77			9,19	56,133		62,320	
Richard Kovacevich	Series C-1	08/02/13	133,333		1,999,995		15.00		8.77	3		9,39	748,441	-	830,930	
Lucas Venture Group XI	Series C-1	09/30/13	261,334		3,920,010		15.00		8.77			9.39	1,466,952	-	1,628,644	
Lucas Venture Group IV LP	Series C-1	09/30/13	33,334		500,010		15.00		8.77	4		9.39	187,115	100	207,739	
PEER VENTURES GROUP IV, L.P.	Series C-1	09/30/13	1,000,000		15,000,000		15.00		8.77			9,39	5,613,324	-	6,232,038	
Jucas Venture Group XI	Series C-1	10/01/13	126,666		1,899,990		15.00		8.77			9,39	711.017		789,387	
Jucas Venture Group XI	Series C-1	10/02/13	45,000		675,000		15.00		8.77			9 3 9	252,600	-	280,442	
Lucas Venture Group XI	Series C-1	10/07/13	15,000		225,000		15.00		8.77	2		9.39	84,200	÷.	93,481	
Lucas Venture Group XI	Series C-1	10/09/13	11,667		175,005		15.00		8.77			9.39	65,491		72,709	
acas Venture Group XI	Series C-1	10/15/13	10,000		150,000		15.00		8.77	з.		9,39	36,133		62,320	
ucas Venture Group XI	Series C-1	10/30/13	1,666		24,990		15.00		8.77			9.39	9,352		10,383	
Alan Eisenman	Series C-1	12/30/13	6,666		99,990		15.00		8.77	÷.		9.39	37,418		41,543	
Gordon Family Trust	Series C-1	12/30/13	20,000		300,000		15.00		8.77	а.		9.39	112,266		124,641	
Crofton Capital GP	Series C-1	12/30/13	20,000		300,000		15.00		8.77	0.		9.39				
Sherrie Eisenman	Series C-1	12/30/13	3,333		49,995		15.00		8.77	÷.					124,641	
PEER VENTURES GROUP IV. L.P.	Series C-1	12/31/13										9,39			20,771	
			169,995		2,549,925		15.00		8.77	3		9.39	954,237		1,059,415	
fall Black Diamond II, LLC	Series C-1	12/31/13	325,000		4,875,000		15.00		8.77	2		9.39	1,824,330		2,025,413	
Black Diamond Ventures XII-B, LLC	Series C-1	12/31/13	356,660		5,349,900		15.00		8.77	÷		9.39	2,002,048		2,222,719	
Richard Kovacevich	Series C-1	12/18/13	133,333		1,999,995		15.00		8.77	а.		9.39	748,441		830,936	
Colin Carter	Series C-1	01/06/14	16,666		249,990		15.00		8.77	÷		9.39	93,552		103,863	
Daniel C. Carter	Series C-1	01/07/14	5,000		75,000		15.00		8.77	λ.		9.39	28,067	-	.31,160	
Mendenhall TF Partners	Series C-1	01/14/14	87,500		1,312,500		15.00		8,77	4		9.39	491,166	-	545,303	
Kendra Fadil	Series C-1	01/14/14	5,000		75,000		15.00		8.77			9,39	28,067	÷	31,160	
Boies, Schiller & Flexner LLP	Series C-1	01/14/14	322,879		4,843,185	_	15.00	_	8.77		-	9.39	1,812,424	-	2,012,194	
		TOTAL														

Notes: [1] Series C-2 shares per investor detail above exceed share count in Aranca 3/25/15 409A by 231,174 shares.



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 63 of 156

ation of Theranos, Inc f February 7, 2014						(thousands of US	Value Summary 2/7/1 D, except Per Share Value
Equity Value			Inc	licated Value Range			
Valuation Methods	Ref.		Low			High	
Adjusted Net Asset Value Method	Exhibit E.1	\$	378,000				
Discounted Cash Flow Method	Exhibit C.6				5	431,000	
Per Share Value							
		Adj. N	et Asset Value Metho	d Value Allocation	Discour	nted Cash Flow Met	hod Value Allocation
				Present Value			Present Value

Preferred Shares Series A @ \$0.150 46,320,045 \$ 15,971,798 \$ 0.34 \$ 19,704,031 \$ Series B @ \$0.1846 54,162,965 19,200,011 0.35 23,640,024 Series C @ \$0.564 58,896,105 36,586,427 0.62 42,179,901 Series C-1 @ \$15.00 25,175,001 50,247,440 2.00 54,863,296 Series C-2 @ \$17.00 9,669,998 95,700,432 9.90 102,385,064 Total Preferred Shares 201,724,146 283,466,099 313,172,690 313,172,690 Warrants on Common Exercise Price @ \$0.072 741,665 202,862 0.27 254,789 Common - Outstanding 302,640,465 91,674,991 0.30 114,224,663 Options on Common Exercise Price @ \$0.015 350,000 104,602 0.30 130,472 Exercise Price @ \$0.072 3,092,715 359,949 0.29 449,631 Exercise Price @ \$0.072 3,092,715 845,929 0.27 1,062,459 Exercise Price @ \$0.072 3,092,715 845,929 0.27 1,062,459	Present Value Per Share Marketable		Present Value Marketable	_	Present Value Per Share Marketable	-	Present Value Marketable		Shares Outstanding	Share Classes
Series B @ \$0.1846 54,162,965 19,200,011 0.35 23,640,024 Series C @ \$0.564 58,896,105 36,586,427 0.62 42,179,901 Series C -1 @ \$3.00 25,175,001 50,247,440 2.00 54,863,296 Series C -1 @ \$15.00 7,500,032 65,759,992 8.77 70,400,373 Series C -2 @ \$17.00 9,669,998 95,700,432 9.90 102,385,064 Total Preferred Shares 201,724,146 283,466,099 313,172,690 313,172,690 Warrants on Common Exercise Price @ \$0.072 741,665 202,862 0.27 254,789 Common - Outstanding 302,640,465 91,674,991 0.30 114,224,663 Options on Common Exercise Price @ \$0,030 1,227,125 359,949 0.29 449,663 Discrete Price @ \$0,030 1,227,125 359,949 0.29 449,653 194,741 Exercise Price @ \$0,030 1,227,125 359,949 0.29 449,653 194,741 Exercise Price @ \$0,072 3,092,715 845,929 0.27 1,062				1			15 074 700		10 000 015	
Series C @ \$0.564 58,896,105 36,586,427 0.62 42,179,901 Series C-1 @ \$3.00 25,175,001 50,247,440 2.00 54,863,296 Series C-1 @ \$15.00 7,500,032 65,759,992 8.77 70,400,373 Series C-2 @ \$17.00 9,669,998 95,700,432 9.90 102,385,064 Total Preferred Shares 201,724,146 283,466,099 313,172,690 313,172,690 Warrants on Common Exercise Price @ \$0.072 741,665 202,862 0.27 254,789 Common - Outstanding 302,640,465 91,674,991 0.30 114,224,663 Options on Common Exercise Price @ \$0.015 350,000 104,602 0.30 130,472 Exercise Price @ \$0.015 350,000 104,602 0.30 130,472 Exercise Price @ \$0.030 1,227,125 359,949 0.29 449,631 Exercise Price @ \$0.072 3,092,715 845,929 0.27 1,062,459 Exercise Price @ \$0.072 3,092,715 845,929 0.27 1,062,459 Exercise Price @	(TO 1 T)	\$		\$		\$		2		
Series C-1 @ \$3.00 25,175,001 50,247,440 2.00 54,863,296 Series C-1 @ \$15,00 7,500,032 65,759,992 8.77 70,400,373 Series C-2 @ \$17.00 9,669,998 95,700,432 9.90 102,385,064 Total Preferred Shares 201,724,146 283,466,099 313,172,690 313,172,690 Warrants on Common Exercise Price @ \$0.072 741,665 202,862 0.27 254,789 Common - Outstanding 302,640,465 91,674,991 0.30 114,224,663 Options on Common Exercise Price @ \$0.015 350,000 104,602 0.30 130,472 Exercise Price @ \$0.072 3,092,715 345,929 0.27 1,062,459 Exercise Price @ \$0,072 3,092,715 845,929 0.27 1,062,459 Exercise Price @ \$0,094 312,500	0.44		The second se							
Series C-1 @ \$15.00 7,500,032 65,759,992 8.77 70,400,373 Series C-2 @ \$17.00 9,669,998 95,700,432 9.90 102,385,064 Total Preferred Shares 201,724,146 283,466,099 9.90 313,172,690 Warrants on Common Exercise Price @ \$0.072 741,665 202,862 0.27 254,789 Common - Outstanding 302,640,465 91,674,991 0.30 114,224,663 Options on Common Exercise Price @ \$0.015 350,000 104,602 0.30 130,472 Exercise Price @ \$0,030 1,227,125 359,949 0.29 449,631 Exercise Price @ \$0,066 552,500 155,386 0.28 194,741 Exercise Price @ \$0,072 3,092,715 845,929 0.27 1,062,459 Exercise Price @ \$0,072 3,092,715 845,929 0.27 1,062,459 Exercise Price @ \$0,094 312,500 81,901 0.26 103,201 Exercise Price @ \$0,070 3,990,167 953,270 0.24 1,209,524	0.72								the second se	
Series C-2 @ \$17.00 9,669,998 95,700,432 9.90 102,385,064 Total Preferred Shares 201,724,146 283,466,099 313,172,690 Warrants on Common Exercise Price @ \$0.072 741,665 202,862 0.27 254,789 Common - Outstanding 302,640,465 91,674,991 0.30 114,224,663 Options on Common Exercise Price @ \$0.015 350,000 104,602 0.30 130,472 Exercise Price @ \$0.030 1,227,125 359,949 0.29 449,631 Exercise Price @ \$0.066 552,500 155,386 0.28 194,741 Exercise Price @ \$0.072 3,092,715 845,929 0.27 1,062,459 Exercise Price @ \$0.094 312,500 81,901 0.26 103,201 Exercise Price @ \$0.072 3,092,715 845,929 0.27 1,062,459 Exercise Price @ \$0.074 312,500 81,901 0.26 103,201 Exercise Price @ \$0.074 3,990,167 953,270 0.24 1,209,524	2.18		the second se							
Total Preferred Shares 201,724,146 283,466,099 313,172,690 Warrants on Common Exercise Price @ \$0.072 741,665 202,862 0.27 254,789 Common - Outstanding 302,640,465 91,674,991 0.30 114,224,663 Options on Common Exercise Price @ \$0.015 350,000 104,602 0.30 130,472 Exercise Price @ \$0.030 1,227,125 359,949 0.29 449,631 Exercise Price @ \$0.066 552,500 155,386 0.28 194,741 Exercise Price @ \$0.072 3,092,715 845,929 0.27 1,062,459 Exercise Price @ \$0.094 312,500 81,901 0.26 103,201 Exercise Price @ \$0.072 3,990,167 953,270 0.24 1,209,524	9.39									
Warrants on Common Exercise Price @ \$0.072741,665202,8620.27254,789Common - Outstanding302,640,46591,674,9910.30114,224,663Options on Common Exercise Price @ \$0.015350,000104,6020.30130,472Exercise Price @ \$0.0301,227,125359,9490.29449,631Exercise Price @ \$0.066552,500155,3860.28194,741Exercise Price @ \$0.0723,092,715845,9290.271,062,459Exercise Price @ \$0.094312,50081,9010.26103,201Exercise Price @ \$0.1703,990,167953,2700.241,209,524	10.59		the second se		9.90	- C		-		
Exercise Price @ \$0.072741,665202,8620.27254,789Common - Outstanding302,640,46591,674,9910.30114,224,663Options on Common104,6020.30130,472Exercise Price @ \$0.015350,000104,6020.30130,472Exercise Price @ \$0.0301,227,125359,9490.29449,631Exercise Price @ \$0.066552,500155,3860.28194,741Exercise Price @ \$0.0723,092,715845,9290.271,062,459Exercise Price @ \$0.094312,50081,9010.26103,201Exercise Price @ \$0.1703,990,167953,2700.241,209,524			313,172,690				283,400,099		201,724,140	i otal Preferred Shares
Common - Outstanding302,640,46591,674,9910.30114,224,663Options on CommonExercise Price @ \$0.015350,000104,6020.30130,472Exercise Price @ \$0.0301,227,125359,9490.29449,631Exercise Price @ \$0.066552,500155,3860.28194,741Exercise Price @ \$0.0723,092,715845,9290.271,062,459Exercise Price @ \$0.094312,50081,9010.26103,201Exercise Price @ \$0.1703,990,167953,2700.241,209,524										Warrants on Common
Options on Common Exercise Price @ \$0.015 350,000 104,602 0.30 130,472 Exercise Price @ \$0.030 1,227,125 359,949 0.29 449,631 Exercise Price @ \$0.066 552,500 155,386 0.28 194,741 Exercise Price @ \$0.072 3,092,715 845,929 0.27 1,062,459 Exercise Price @ \$0.094 312,500 81,901 0.26 103,201 Exercise Price @ \$0.170 3,990,167 953,270 0.24 1,209,524	0.34		254,789		0.27		202,862		741,665	Exercise Price @ \$0.072
Exercise Price @ \$0.015350,000104,6020.30130,472Exercise Price @ \$0.0301,227,125359,9490.29449,631Exercise Price @ \$0.066552,500155,3860.28194,741Exercise Price @ \$0.0723,092,715845,9290.271,062,459Exercise Price @ \$0.094312,50081,9010.26103,201Exercise Price @ \$0.1703,990,167953,2700.241,209,524	0.38		114,224,663		0.30		91,674,991		302,640,465	Common - Outstanding
Exercise Price @ \$0.0301,227,125359,9490.29449,631Exercise Price @ \$0.066552,500155,3860.28194,741Exercise Price @ \$0.0723,092,715845,9290.271,062,459Exercise Price @ \$0.094312,50081,9010.26103,201Exercise Price @ \$0.1703,990,167953,2700.241,209,524										Options on Common
Exercise Price @ \$0.066552,500155,3860.28194,741Exercise Price @ \$0.0723,092,715845,9290.271,062,459Exercise Price @ \$0.094312,50081,9010.26103,201Exercise Price @ \$0.1703,990,167953,2700.241,209,524	0.37		130,472		0.30		104,602		350,000	Exercise Price @ \$0.015
Exercise Price @ \$0.0723,092,715845,9290.271,062,459Exercise Price @ \$0.094312,50081,9010.26103,201Exercise Price @ \$0.1703,990,167953,2700.241,209,524	0.37		449,631		0.29		359,949		1,227,125	Exercise Price @ \$0,030
Exercise Price @ \$0.094 312,500 81,901 0.26 103,201 Exercise Price @ \$0.170 3,990,167 953,270 0.24 1,209,524	0.35		194,741		0.28		155,386		552,500	Exercise Price @ \$0.066
Exercise Price @ \$0.170 3,990,167 953,270 0.24 1,209,524	0.34		1,062,459		0.27		845,929		3,092,715	Exercise Price @ \$0.072
	0.33		103,201		0.26		81,901		312,500	Exercise Price @ \$0.094
Exercise Price @ \$0.206 703,195 155,010 0.22 197,832	0.30		1,209,524		0.24		953,270		3,990,167	Exercise Price @ \$0.170
	0.28		197,832		0.22		155,010		703,195	Exercise Price @ \$0.206
Total Options Outstanding 10,228,202 2,656,047 3,347,859		Ľ.,	3,347,859	1000			2,656,047		10,228,202	
Total Outstanding 515,334,478 \$ 378,000,000 \$ 431,000,000		1	431,000,000	\$			378,000,000	\$	515,334,478	Total Outstanding



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 64 of 156

US v. Elizabeth Holmes Exhibit A.4 Value Summary 12/31/14 Valuation of Theranos, Inc. (thousands of USD, except Per Share Value) As of December 31, 2014 Equity Value Indicated Value Range **Valuation Methods** Ref. Low High ł Adjusted Net Asset Value Method Exhibit H.1 827,000 \$ **Discounted Cash Flow Method** Exhibit F.6 \$ 951,000 Per Share Value ah Claur Mathad Malus Allegation

		Adj.	Net Asset Value M	etho	Value Allocation	Di	scounted Cash Flow	Meth	od Value Allocation
Share Classes	Shares Outstanding	F	Present Value Marketable		Present Value Per Share Marketable		Present Value Marketable		Present Value Per Share Marketable
Preferred Shares									
Series A @ \$0.150	46,320,045	\$	32,977,000	\$	0.71	\$	41,348,789	\$	0.89
Series B @ \$0.1846	54,134,965		39,131,429		0.72		49,002,864		0.91
Series C @ \$0.564	58,896,105		58,956,625		1.00		70,461,233		1.20
Series C-1 @ \$3.00	25,175,001		61,774,321		2.45		69,038,049		2.74
Series C-1 @ \$15.00	7,500,032		72,077,495		9.61		77,684,547		10.36
Series C-2 @ \$17.00	32,808,227	-	354,428,619		10.80	-	381,466,406		11.63
Total Preferred Shares	224,834,375		619,345,489			-	689,001,888		
Warrants on Common									
Exercise Price @ \$0.072	741,665		466,518		0.63		591,355		0.80
Common - Outstanding	302,965,725		201,372,919		0.66		254,016,501		0.84
Options on Common									
Exercise Price @ \$0.015	350,000		231,008		0.66		291,581		0.83
Exercise Price @ \$0.030	1,170,875		765,136		0.65		966,622		0.83
Exercise Price @ \$0.066	547,500		349,798		0.64		442,794		0.81
Exercise Price @ \$0.072	2,579,175		1,622,338		0.63		2,056,464		0.80
Exercise Price @ \$0.094	312,500		191,946		0.61		243,815		0.78
Exercise Price @ \$0.170	3,972,457		2,317,274		0.58		2,956,570		0.74
Exercise Price @ \$0.206	606,365	_	337,573		0.56	1	432,410		0.71
Total Options Outstanding	9,538,872		5,815,073				7,390,256		
otal Outstanding	538,080,637	\$	827,000,000			\$	951,000,000		



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 65 of 156

v. Elizabeth Holmes uation of Theranos, Inc. of October 15, 2015					(thousands of US	Exhibit A.5 Value Summary 10/15/15 SD, except Per Share Value)
Equity Value		 Ind	icated Value Range			
Valuation Methods	Ref.	 Low	.,		High	
Adjusted Net Asset Value Method	Exhibit K.1	\$ 1,051,000				
Discounted Cash Flow Method	Exhibit I.6			s	1,184,000	

Per Share Value

		Ad	j. Net Asset Value M	etho	d Value Allocation	Dis	scounted Cash Flow	Meth	od Value Allocation
Share Classes	Shares Outstanding	1	Present Value Marketable		Present Value Per Share Marketable		Present Value Marketable	2	Present Value Per Share Marketable
Preferred Shares		100		5.		1		-	
Series A @ \$0.150	46,320,045	\$	42,593,795	\$	0.92	\$	51,570,875	\$	1.11
Series B @ \$0.1846	54,162,965		50,438,016		0.93		61,011,415		1.13
Series C @ \$0.564	58,896,105		71,702,077		1.22		83,840,633		1.42
Series C-1 @ \$3.00	21,947,001		59,748,688		2.72		66,016,108		3.01
Series C-1 @ \$15.00	6,563,232		66,525,417		10.14		70,969,027		10.81
Series C-2 @ \$17.00	42,947,639		488,387,110		11.37	1	520,266,801		12.11
Total Preferred Shares	230,836,987		779,395,102				853,674,858		
Warrants on Common									
Exercise Price @ \$0.072	741,665		615,782		0.83		751,426		1.01
Common - Outstanding	302,965,725		263,274,450		0.87		320,141,665		1.06
Options on Common									
Exercise Price @ \$0.015	350,000		302,400		0.86		367,883		1.05
Exercise Price @ \$0.030	1,170,875		1,003,355		0.86		1,221,403		1.04
Exercise Price @ \$0.066	547,500		460,518		0.84		561,402		1.03
Exercise Price @ \$0.072	2,579,175		2,141,411		0.83		2,613,120		1.01
Exercise Price @ \$0.094	312,500		254,377		0.81		310,879		0.99
Exercise Price @ \$0.170	3,972,457		3,097,888		0.78		3,798,228		0.96
Exercise Price @ \$0.206	606,365		454,717		0.75		559,136		0.92
Total Options Outstanding	9,538,872	-	7,714,666			_	9,432,051	6	
otal Outstanding	544,083,249	\$	1,051,000,000			\$	1,184,000,000	1	



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 66 of 156

aluation of Theranos, Inc. s of February 7, 2014		_	_													Historical (thou		nce Sheet
		As of		As of		As of		As of		As of		As of		As of		As of		As of
	12	-31-07	12	2-31-08	12	-31-09	12	2-31-10	12	2-31-11	1;	2-31-12	1	2-31-13	1	2-31-14	1	2-31-15
ssets																		
Current Assets																		
Current Operating Assets	- 24	a second	10.1		1.2			-	20	Tente.		avar.		Section 1		Sec. 14	1 G.	
Cash & Equivalents	5	14,509	\$	1,884	5	3,690	\$	36,718	\$	88,056	\$	51,785	\$	30,966	\$	465,933	\$	424,27
Accounts Receivable				215		29		55				a land						140.0
Inventory				250		581		007		-		1,733		3,777		2,383		13,33
Other Current Assets		412	_		-	195	_	827	-	665	_	1,882	_	1,780	_	12,788		5,1
Total Current Operating Assets		14,921		2,349		4,495		37,600		88,721		55,401		36,523		481,104		442,72
Total Current Non-Operating Assets	-	14,921	<u>}</u>	0.040	_	4 405	-	27 000		00 704			_	-	_	101 101	-	-
Total Current Assets		14,921		2,349		4,495		37,600		88,721		55,401		36,523		481,104		442,72
Total Fixed Assets - Net		1,795		2,211		1,766		2,630		4,648		19,557		22,021		53,366		64,80
Non Current Assets																		
Total Intangible Assets - Net						1		-		-		~				1. Sec. 1.		
Total Long Term Receivables		-		×								-		-		27,045		27,5
Total Other Non-Current Assets	_		_		-		-	-	_		-		_	~ ~	-		_	
Total Non Current Assets	-		-		-	-	-		-	<u> </u>	-	<u> </u>	-		-	27,045	-	27,5
otal Assets	\$	16,716	\$	4,560	\$	6,260	\$	40,230	\$	93,369	\$	74,958	\$	58,543	\$	561,515	\$	535,0
abilities and Equity:																		
abilities																		
Current Liabilities																		
Current Operating Liabilities																		
Accounts Payable	\$	1,683	5	549	\$	560	\$	440	\$	1,238	\$	7,669	s	7,430	s	16,633	\$	18,6
Deferred Revenue		500		244		1,663		257		7		7		7				1.04
Other Current Liabilities		1,821	_	1,306	-	950		1,298	_	2,845		7,714	_	50,017		400,359		19,1
Total Current Operating Liabilities		4,004		2,099		3,173		1,995		4,090		15,390		57,454	10.00	416,992	_	37,8
Total Current Debt Obligations		12		1.4		8,061				18.11		181		-		-		1.1
Total Current Liabilities		4,004		2,099		11,234		1,995		4,090	1	15,390	1	57,454		416,992	- 10	37,8
Non Current Liabilities																		
Long Term Debt																		
Note Payable 1				-		- C		-								10.000		0.7
Note Payable 2		-		-				- 10		101		40,173		40,489		40,805		41,1
Noncurrent capital lease	_	3	_				-	42		101	-	231	-	1,897	-	10.005	-	
Total Long Term Debt Other Non Current Liabilities		3		-				42		101		40,404		42,386		40,805		41,1
Deferred Rent				643		723		759		767		1,572		1,857				
Deferred Revenue, LT				-		2,146		3,808		3,801		3.801		3,801				1.00
Customer Deposits		- 60		2		2,140		0,000		73,500		69,500		80,000		143,846		136,3
Other Non-current liabilities		29		73		807		1,847		5,959		3,425		1,866		33,750		34,5
Total Other Non Current Liabilities	_	29	-	716	-	3,676	-	6,414		84,027	-	78,297		87,525	-	177.596	-	170.8
Total Non Current Liabilities	-	32	_	716	_	3,676	_	6,456	_	84,128	_	118,702	-	129,911	_	218,401	-	211,9
otal Liabilities		4,036		2,815		14,910		8,451		88,218		134,092		187,365		635,393		249,8
otal Equity		12,680	_	1,745	_	(8,649)	_	31,779	_	5,151	_	(59,134)	_	(128,821)	_	(73,878)	-	285,1

Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 67 of 156

Valuation of Theranos, Inc. As of February 7, 2014														_	Н	istorical Inco (thou	22.0	Statements Is of USD)
	1	FYE 2-31-07	1	FYE 2-31-08	1	FYE 2-31-09	1	FYE 2-31-10	12	FYE 2-31-11		FYE 2-31-12	1:	FYE 2-31-13	_1	FYE 12-31-14	_1	FYE 2-31-15
Total Revenue	\$	14	\$	1,799	\$	2,794	\$	1,401	\$	518	\$	(+)	\$	-	\$	116	\$	391
Total Cost of Sales	_		_	(+)	_			<u> </u>				-	_		_	-	_	-
Gross Profit				1,799		2,794		1,401		518				~		116		391
Total Operating Expenses		16,728	_	12,615	_	13,597		16,801		27,173	_	64,015	_	85,605	_	122,756	_	173,246
EBITDA		(16,728)		(10,816)		(10,804)		(15,399)		(26,655)		(64,015)		(85,605)		(122,640)		(172,855)
Depreciation & Amortization Depreciation Amortization		672		740		626		771		1,025		2,654		5,573		7,247		10,162
Total Depreciation & Amortization		672	-	740		626		771		1,025	_	2,654	_	5,573		7,247	_	10,162
EBIT		(17,400)		(11,556)		(11,430)		(16,170)		(27,680)		(66,670)		(91,178)		(129,888)		(183,017)
Gain/(Loss) on Sale of Fixed Asse Total Misc Inc/(Exp)		1,132		264		- 8		42		146		(9) 27		(849) (807)		(1) 528		1,984
Interest Expense		3	_	1		46		88		3		196		383	_	474	_	537
Pre-Tax Income Less: Income Taxes/(Benefit)		(16,271)		(11,294)		(11,467)		(16,216)		(27,536)		(66,838)	è.	(92,368)	1	(129,834)	1	(181,570)
Net Income/(Loss)	\$	(16,271)	\$	(11,294)	\$	(11,467)	\$	(16,216)	\$	(27,536)	5	(66,838)	\$	(92,368)	\$	(129,834)	\$	(181,570)



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 68 of 156

Valuation of Theranos, Inc. As of February 7, 2014				_						_	Adju	istments to Fir (t		Statements ods of USD)
		FYE -31-09		YE 31-10		FYE -31-11		FYE -31-12	1	FYE 2-31-13		FYE 12-31-14	1	FYE 2-31-15
Balance Sheet Adjustments: Cash & Equivalents Miscellaneous Receipts Liability Other	\$		\$	1	\$	-	\$	÷	s	45,187	\$	390,375	\$	
Total Balance Sheet Adjustments	\$	4	\$	÷	\$		\$		\$	45,187	\$	390,375	\$	
Income Statement Adjustments:														
Revenue Revenue 1 Revenue 2 Revenue 3 Total Revenue	\$	(0.10)	\$	4 4 5	\$		\$		\$		\$	1	\$	4.1.4
Total Cost of Sales											<u> </u>			. à.,
Gross Profit		14		41				4		14				U.
Total Operating Expenses		÷		12-1		-				-				- 21
Total Officers' Compensation	_		2						_		_		_	
EBITDA				÷.										- 4
Total Depreciation & Amortization		12		m		e				~	_			~
EBIT				1				÷		÷.		÷		æ
Miscellaneous Income/(Expense) Interest Income Gain/(Loss) on Sale of Fixed Assets Other Income/(Expense)		(8)		(42)		(146)		(37) 9		(42) 849		(529) 1		(1,984)
Total Misc Inc/(Exp)	1	(8)	-	(42)	-	(146)		(27)	-	807	-	(528)	-	(1,984)
Interest Expense						÷ -	_	· · ·		*	-			
Pre-Tax Income Less: Income Taxes/(Benefit)		(8)		(42)		(146)	-	(27)		807 -		(528)		(1,984)
Total Income Statement Adjustments	s	(8)	\$	(42)	\$	(146)	s	(27)	s	807	\$	(528)	\$	(1,984)



US v. Elizabeth Holmes	Exhibit 8.4
Valuation of Theranos, Inc.	Adjusted Balance Sheets
As of February 7, 2014	(thousands of USD)

			Subject	Company - A	djusted				Subject C	ompany Con	mon Size		Bench	mark Comm	on Size
	As of	As of	As of	As of	As of	As of	As of	As of	As of	As of	As of	As of	Comp. [1]	RMA [2]	BizMiner [3
Assets	12-31-09	12-31-10	12-31-11	12-31-12	12-31-13	12-31-14	12-31-15	12-31-11	12-31-12	12-31-13	12-31-14	12-31-15	LTM	2015-16	2017
Current Assets															
Current Operating Assets															
Cash & Equivalents	5 3.690	5 36,718	\$ 88.056	\$ 51,785	\$ 30,966	\$ 465,933	5 424,278	94.3%	69.1%	52,9%	83.0%	79.3%	16.3%	24.7%	15.9%
Accounts Receivable	29	55	0 00,000		e 00,000	4400,000	-	0.0%	0.0%	0.0%	0.0%	0.0%	10.1%	12.2%	
inventory	581		1.20	1,733	3,777	2,383	13,331	0.0%	2.3%	6.5%	0.4%	2.5%	5.1%	1.1%	
Other Current Assets	195	827	665	1,882	1,780	12,788	5,114	0.7%	2.5%	3.0%	2.3%	1.0%	2.1%	7.5%	
Total Current Operating Assels	4,495	37,600	88,721	55,401	36,523	481,104	442,723	95.0%	73.9%	62.4%	85.7%	82.7%	33.6%	45.5%	
Total Current Non-Operating Assets						in the second se		0.0%	0.0%	0.0%	0.0%	0.0%	NA	NA	
Total Current Assets	4,495	37,600	88,721	55,401	36,523	481,104	442,723	95.0%	73.9%	62,4%	85.7%	82.7%	33.6%	45.5%	
Total Fixed Assets - Net	1,766	2,630	4,648	19,557	22,021	53,366	64,803	5.0%	26.1%	37.6%	9.5%	12.1%	8.3%	25.0%	21.99
Non Current Assets															
Total Intangible Assets - Net	-	-		-				0.0%	0.0%	0.0%	0.0%	0.0%	31.8%	9.9%	NA
Total Long Term Receivables			1.4			27.045	27,513	0.0%	0.0%	0.0%	4.8%	5.1%	NA	NA	
Total Other Non-Current Assets		and the second s	1.00					0.0%	0.0%	0.0%	0.0%	0.0%	26.2%	19.6%	
Total Non Current Assets				<u> </u>	<u> </u>	27,045	27,513	0.0%	0.0%	0.0%	4.8%	5,1%	58.1%	29.5%	34.99
Total Assets	\$ 6,260	\$ 40,230	\$ 93,369	\$ 74,968	\$ 58,543	\$ 561,515	\$ 535,039	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.05
Liabilities and Equity:															
Liabilities															
Current Liabilities															
Current Operating Liabilities															
Accounts Payable	S 560	5 440	5 1,238	\$ 7,669	\$ 7,430	\$ 16,633	\$ 18,692	1.3%	10.2%	12.7%	3.0%	3.5%	3.0%	10.2%	5.49
Deferred Revenue	1,663	257	7	7	7	1	Contraction of	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	NA	
Other Current Liabilities	950	1,298	2,845	7,714	4,830	9,984	19,175	3.0%	10.3%	8.3%	1.8%	3.6%	5.8%	10.5%	
Total Current Operating Liabilities	3,173	1,995	4,090	15,390	12,267	26,617	37,867	4.4%	20.5%	21.0%	4.7%	7.1%	9,3%	20.7%	
Total Current Debt Obligations	8,061							0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	2.0%	
Total Current Liabilities	11,234	1,995	4,090	15,390	12,267	26,617	37,867	4 4%	20.5%	21.0%	4.7%	7 1%	9,4%	22.7%	27.69
Non Current Liabilities															
Total Long Term Debt	-	42	101	40,404	42,386	40,605	41,121	0.1%	53.9%	72.4%	7.3%	7.7%	0.6%	11.3%	26.2%
Other Non Current Liabilities															
Deferred Rent	723	759	767	1,572	1,857	-	1.41	0.8%	2.1%	3.2%	0.0%	0,0%	NA	NA	N/
Deferred Revenue, LT	2,146	3,808	3,801	3,801	3,801			4.1%	5.1%	6.5%	0.0%	0.0%	NA	NA	N/
Customer Deposits		1.197	73,500	69,500	80,000	143,846	136,346	78.7%	92.7%	136.7%	25.6%	25.5%	NA	NA	NA
Other Non-current liabilities	807	1,847	5,959	3,425	1,866	33,750	34,508	6.4%	4.6%	3.2%	6.0%	6.4%	17.5%	3.4%	
Total Other Non Current Liabilities	3,676	6,414	84,027	78,297	87.525	177,596	170,854	90.0%	104.5%	149.5%	31.6%	31.9%	17.5%	3.4%	N/A
Total Non Current Liabilities	3,676	6,456	84,128	118,702	129,911	218,401	211,975	90.1%	158.4%	221.9%	38.9%	39.6%	18.1%	14.7%	26.2%
Total Liabilities	14,910	8,451	88,218	134,092	142,178	245.018	249,842	94.5%	178.9%	242.9%	43.6%	46.7%	27.5%	37.4%	53.8%
Total Equity	(8,649)	31,779	5,151	(59,134)	(83,634)	316,497	285, 197	5.5%	-78.9%	-142.9%	56.4%	53.3%	72.5%	62.7%	46.2%

Notes: [1] Source: Refer to report for selection of public comparables group. Figures represent median of dataset as reported by S&P CapitalIQ. [2] Source: The Risk Management Association; NAICS 54171N. Research and Development in the Physical, Engineering, and Life Sciences (non-Cost of Sales) for firms with annual revenues greater than \$25MM. [3] Source: BizMiner Industry Financial Analysis Profile; NAICS 5417: Scientific Research & Development Services for firms with annual revenues between \$100MM - \$250MM.



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 70 of 156

Valuation of Theranos, Inc. As of February 7, 2014															Exhibit B.5 me Statements
				_										(thou	isands of USD)
			Subject	Company - Ad	iusted				Subject	Company Comp	an Size		Reach	mark Commo	e Clas
	FYE 12-31-09	FYE 12-31-10	FYE 12-31-11	FYE 12-31-12	FYE 12-31-13	FYE 12-31-14	FYE 12-31-15	FYE 12-31-11	FYE 12-31-12	FYE 12-31-13	FYE 12-31-14	FYE 12-31-15	Comp. [1]	RMA [2] 2015-16	BizMiner [3] 2017
Total Revenue	2,794	1,401	518	1	-	116	391	100.0%	0.0%	0.0%	100.0%	100.0%	100,0%	100.0%	100.0%
Total Cost of Sales	<u> </u>					2		0.0%	0.0%	0.0%	0.0%	0.0%	50.7%	0.0%	28.6%
Gross Profit	2,794	1,401	518			116	391	100.0%	0.0%	0.0%	100.0%	100.0%	49.3%	100.0%	71.4%
Operating Expenses															
Research & Development General and Administrative	10,257	13,594 3,206	22,018	52,890 11,125	66,757 18,848	73,459 49,298	97,159 76,087	4248.5% 994.8%	0.0%	0.0%	63326.4%	24848 9%	NA	NA	NA
Total Operating Expenses	13,597	16,801	27,173	64.015	85,605	122,756	173,246	5243.3%	0.0%	0.0%	42498.1%	19459.6%	NA 33.7%	NA 84,4%	NA 57.8%
Total Officers' Compensation								0.0%	0.0%	0.0%	0.0%	0.0%	NA	6.8%	2.4%
EBITDA	(10,804)	(15,399)	(26,655)	(64,015)	(85,605)	(122,640)	(172,855)	-5143.3%	0.0%	0.0%	-105724.5%	-44208.5%	16.6%	8.8%	11.2%
EDITOR	(10,004)	(10,555)	(20,000)	(04,010)	(00,000)	(122,040)	(172,000)	-0143.37	0.0%	0.0%	-105/24.5%	-44208.0%	10.0%	0.6%	11.2%
Depreciation & Amortization Depreciation	626	771	1,025	2,654	5,573	7,247	10,162	197.7%	0.0%	0.0%	6247.6%	2598.9%	NA	NA	NA
Amortization					X		10,102	0.0%	0.0%	0.0%	0.0%	0.0%	NA	NA	NA
Total Depreciation & Amortization	626	771	1,025	2,654	5,573	7,247	10,162	197.7%	0.0%	0.0%	6247.6%	2598.9%	11.5%	2.4%	4.2%
EBIT	(11,430)	(16,170)	(27,680)	(56,670)	(51,178)	(129,888)	(183,017)	-5341.0%	0.0%	0.0%	-111972.1%	-46807.4%	4.2%	8.8%	7.1%
Gain/(Loss) on Sale of Fixed Assets	1.1		44			4		0.0%	0.0%	0.0%	0.0%	0.0%	NA	NA	NA
Total Miscellaneous Income/(Expense)		~	-	•	8	× .		0.0%	0,0%	0.0%	0.0%	0.0%	-2.1%	0.8%	0.0%
Interest Expense	46	88	3	196	383	474	537	0.5%	0.0%	0.0%	408.6%	137.3%	1.2%	NA	2,9%
Pre-Tax Income	(11,476)	(16,258)	(27,682)	(66,865)	(91,561)	(130,362)	(183,554)	-5341.5%	0.0%	0.0%	-112380.7%	-46944.8%	0.8%	9.6%	4.2%
Less: Income Taxes/(Benefit)			-				- A.	0.0%	0.0%	0.0%	0.0%	0.0%	-4.4%	NA	2.6%
Net income/(Loss)	\$ (11,476)	\$ (16,258)	\$ (27,682)	\$ (66,865)	\$ (91,561)	\$ (130,362)	\$ (183,554)	-5341.5%	0.0%	0.0%	-112380.7%	-46944.8%	5.2%	9.6%	1.6%
Growth Analysis:					Revenue Growth	Accession in			ER	DA Margin Gro	with				
Subject - 1 year		n/a	-63.0%	-100.0%	NA	NA	237.1%	362.9%	-100.0%	#DIV/DI	#DIV/01	-58.2%			
Guidline Public Company Group [4] - 1 year			8.4%	6.5%	10.6%	3.7%	4,2%	11.3%	5.6%	-3.5%	-2.3%	5.5%			
Industry [5] - 1 year [Nominal Growth Rate]		n/a	9.7%	3.2%	-1.6%	D.0%	1.1%	NA	NA	NA	NA	NA			
Subject - 3 year				-100,0%	-100.0%	-39.3%	NA		-100.0%	-100.0%	173.9%	NA			
Guideline Public Company Group - 3 year				5.5%	7.2%	4.9%	9,2%		4.7%	8.7%	2,6%	-0.9%			
Industry [5] - 3 year (Nominal Growth Rate)				NA.	3.7%	0.5%	-0.2%		NA	NA	NA	NA			

Notes: [1] Source: Refer to report for selection of public comparables group. Figures represent median of dataset as reported by S&P CapitalQ. [2] Source: The Risk Management Association; NAICS 54171N: Research and Development in the Physical, Engineering, and Life Sciences (non-Cost of Sales) for firms with annual revenues greater than \$25MM. [3] Source: BizMiner Industry Financial Analysis Profile; NAICS 54171: Scientific Research & Development Services (or firms with annual revenues between \$100MM - \$250MM. [4] Figures: represent median of dataset as reported by \$8P CapitalQ. [5] Source: BISWorld. NAICS 54171 (real growth) plus inflation from https://www.usinflationcalculator.com/inflation/current-inflation-rates/.



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 71 of 156

US v. Elizabeth Holmes	Exhibit B.6
Valuation of Theranos, Inc.	Comparative Financial Ratios
As of February 7, 2014	

		Gunjeur o	ompany				Benchmark	
FYE 12-31-10	FYE 12-31-11	FYE 12-31-12	FYE 12-31-13	FYE 12-31-14	FYE 12-31-15	Comp. [1] LTM	RMA [2] 2015-16	BizMiner [3] 2017
State State States			a de las regiones	Contraction of the local sectors of the local secto	and the second second	the second second	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
18.8	21.7	3.6	3.0	18.1	11.7	3.5	2.2	1.6
18.4	21.5	3.4	2,5	17.5	11.2	2.2	1.5	1.0
2083.1%	116.6%	N/A	N/A	262013.8%	66883.6%	48.7%	36.1%	22.8%
10.8	19.3	NA	NA	NA	NA	57.8	37.2	63.3
NA	NA	NA	NA	NA	NA	103.6	N/A	55.7
NA	NA	NA	NA	NA	NA	42.3	N/A	100.3
(183.9)	(10,229.0)	(340.4)	(238.4)	(274.0)	(340.8)	5.3	20.4	3.9
YOPETTE	A Maria W	1	4	1	discontax.			
NA	NA	NA	NA	NA	NA	NA		1.51
0.1	0.9	-0.3	-0.3	0.2	0.2	0.2	0.3	0.1
0.0	0.0	-0.7	-0.5	0.1	0.1	0.1	0.2	0.
-51.2%	-537.4%	113.1%	109.5%	-41.2%	-64.4%	NA	7.7%	11.49
-40.4%	-29.6%	-89.2%	-156.4%	-23.2%	-34.3%	NA	4.9%	5.39
0.5	0.1	0.0	0.0	0.0	0.0	7.5	10.3	3.1
0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.7	0.7
	0.0%	0.0%	0.0%	0.0%	0.0%	NA	6.8%	2.49
	12-31-10 18.8 18.4 2083.1% 10.8 NA NA (183.9) NA 0.1 0.0 -51.2% -40.4% 0.5	12-31-10 12-31-11 18.8 21.7 18.4 21.5 2083.1% 116.6% 10.8 19.3 NA NA NA NA (183.9) (10,229.0) NA NA 0.1 0.9 0.0 0.0 -51.2% -537.4% -40.4% -29.6% 0.5 0.1 0.0 0.0	12-31-10 12-31-11 12-31-12 18.8 21.7 3.6 18.4 21.5 3.4 2083.1% 116.6% N/A 10.8 19.3 NA NA NA NA NA NA NA (183.9) (10,229.0) (340.4) NA NA NA 0.1 0.9 -0.3 0.0 0.0 -0.7 -51.2% -537.4% 113.1% -40.4% -29.6% -89.2% 0.5 0.1 0.0 0.0 0.0 0.0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	12-31-1012-31-1112-31-1212-31-1312-31-1418.821.73.63.018.118.421.53.42.517.52083.1%116.6%N/AN/AN/A10.819.3NA10.29.0)(340.4)(238.4)(274.0)NANANANANANANANANANA10.10.9 -0.3 -0.3 0.20.0 -0.7 -0.5 0.1 $.51.2\%$ -537.4% 113.1% 109.5% -41.2% $.40.4\%$ -29.6% -89.2% -156.4% -23.2% 0.50.10.00.00.00.00.00.00.00.0	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

Notes:

 Source: Refer to report for selection of public comparables group. Figures represent median of dataset as reported by S&P CapitallQ.
 Source: The Risk Management Association; NAICS 54171N: Research and Development in the Physical, Engineering, and Life Sciences (non-Cost of Sales) for firms with annual revenues greater than \$25MM.

[3] Source: BizMiner Industry Financial Analysis Profile; NAICS 5417: Scientific Research & Development Services for firms with annual revenues between \$100MM - \$250MM



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 72 of 156

US v. Elizabeth Holmes	Exhibit C.1
Valuation of Theranos, Inc.	Discounted Cash Flow Key Assumptions
As of February 7, 2014	(thousands of USD)

			For the Twelve Mo	onth Period Ending De	cember 31.	
	Basis	2014	2015	2016	2017	2018
Total Revenue	Annual Growth Rate	N/A	75534.7%	97.0%	44.8%	55.6%
Terminal Value	Exit Multiple, Ex. D.1					4.0%
Total Cost of Revenue	% of Revenue	35.3%	35.0%	32.0%	32.0%	30.0%
Total Operating Expenses	% of Revenue	66687.3%	85.5%	44.7%	33.7%	24.7%
Depreciation & Amortization	Exhibit C.3	3041.6%	6.8%	5.8%	6.3%	5.7%
Interest Expense	N/A	N/A	N/A	N/A	N/A	N/A
Income Taxes	% of Pre-Tax Net Income	40.0%	40.0%	40.0%	40.0%	40.0%
Adjusted Operating Working Capital Adjusted Operating Working Capital Yr/yr Working Capital (Increase)/Reduction	Exhibit C.2	-19704.4% (29,557) (33,712)	4.0% 4,593 (34,150)	10.5% 23,523 (18,930)	14.8% 47,806 (24,283)	18.6% 93,778 (45,972)
Capital Expenditures	% of Revenue	5502.0%	29.2%	20.6%	20.3%	11.8%
Interest-Bearing Debt	fown Sch, If Used Enter # on Ex. List					



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 73 of 156

Exhibit C.2
Adjusted Working Capital Analysis
(thousands of USD)

		FY			FYE		FYE		FYE	- 12	FYE	_		or th	e Twelve M	onth		ling C		1,	
Working Capital		12-31	-09	_1	2-31-10	_1	2-31-11	1	2-31-12	_1	2-31-13	-	2014	_	2015	1	2016		2017	_	2018
Total Revenue	[1]	s	2,794	5	1,401	5	518	\$		s		s.	150	s	113,452		000 450				
Total COS	10	*	20.04	Ψ.	1,401	9	510	*		4		9	53	3	39,708	s	223,452	\$	323,452	\$	503,452
Total Operating Expenses		1	3,597		16,801		27,173		64,015		85,605		100,031		97,025		71,505 99,961		103,505 108,977		151,036 124,401
Operating Assets																					
Cash & Equivalents	[2]	\$	3,690	\$	36,718	s	88,056	5	51,785	s	30,966	s	49,330	s	47,848	s	49,296	s	53,742	s	61,348
Accounts Receivable			29		55				C. Vec	· T ·	Canada C	2	10,000		11,010		40,200		50.142		01,040
Inventory			581						1,733		3,777		8,874		3,404		6.704		9,704		15,104
Other Current Assets			195		827		665		1,882		1,780		18,362		4,838		5,080		5,334		5,601
Note Receivable			100								7,7 00		27,236		57,539		50,055		42,303		58,453
Total Operating Assets			4,495	_	37,600		88,721	_	55,401	-	36,523	\equiv	103,802	_	113,629	1	111,135		111,083		140,506
Operating Liabilities																	-		1		
Accounts Payable			560		440		1,238		7,669		7,430		8,340		13,879		16,480		16,174		22,774
Deferred Revenue			1,663		257		7		7		7		0,040		19/019		10,400		10,174		22,114
Other Current Liabilities			950		1.298		2,845		7.714		4,830		12,239		7,073		8,265		9,453		11,521
Deferred Rent			723		759		767		1,572		1,857		10,000		1,010		0,200		2,400		11,061
Deferred Revenue, LT			2,146		3,808		3,801		3,801		3,801										- 3.
Customer Deposits			-				73,500		69,500		80,000		93,808		70,356		46,904		23,452		- CI-
Other Non-current liabilities			807		1,847		5,959		3,425		1,866		18.972		17,728		15,963		14,198		12,433
Total Operating Liabilities			6,849	_	8,409		88,117	_	93,687	_	99,791	-	133,359		109,036		87,612		63,277	-	46,728
Net Operating Working Capital	-	5 (2,354)	\$	29,191	\$	604	\$	(38,287)	s	(63,268)	5	(29,557)	s	4,593	s	23,523	s	47.806	5	93,778
Net Operating Working Capital as % of Revenue		-	84.3%	_	2083.1%	_	116.6%	-	0.0%	-	0.0%	-	-19704 4%	-	4.0%	-	10.5%	-	14.8%	-	18.6%
Yr/yr Working Capital (Increase)/Reduction					(31,545)		28,587		38,891		24,981		(33,712)		(34,150)		(18,930)		(24,283)		(45,972)
BizMiner Working Capital as a % of Revenue													22.8%								
RMA Working Capital as a % of Revenue													36.1%								
Comparable Group Working Capital as a % of Revenue													48.7%								
Days' Operating Expenses in Cash			99		798		1,183		295		132		180		180		180		180		180
Days' Sales Outstanding			4		14		-		-				-				100		-		100
Days' Inventory			100								-		61,113		31		34		34		37
Other Current Assets as a % of Revenue			7.0%		59.0%		128.4%		0.0%		0.0%		12241.3%		4.3%		2.3%		1.6%		1.1%
Note Receivable as a % of Revenue			0.0%		0.0%		0.0%		0.0%		0.0%		18157.3%		50.7%		22.4%		13.1%		11,6%
Days' Payables			1										57,436		128		84		57		55
Deposits & Deferred Revenue as a % of Revenue		1	36.3%		290.1%		14917.2%		0.0%		0.0%		62538.7%		62.0%		21.0%		7.3%		0.0%
Other Current Liabilites as a % of Opex			7.0%		7.7%		10.5%		12.1%		5.6%		12.2%		7.3%		8.3%		8.7%		9.3%
Deferred Rent as a % of Opex			5.3%		4.5%		2.8%		2.5%		2.2%		0.0%		0.0%		0.0%		0.0%		0.0%
Other Non-current liabilities as a % of Opex			5.9%		11.0%		21.9%		5.4%		2.2%		19.0%		18.3%		16.0%		13.0%		10.0%

Notes:

Historical balances are per Adjusted Income Statement. Refer to Exhibit B.5. Operating Expenses exclude Depreciation & Amortization.
 Estimated operating cash levels equal to 6 months of operating expenses



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 74 of 156

US v. Elizabeth Holmes	Exhibit C.3
Valuation of Theranos, Inc.	Depreciation & Capital Expenditure Analysis
As of February 7, 2014	(thousands of USD)

					Fo	r the Twelve M	Iont	h Period Endi	ng [December 31.		
Forecast Depreciation				2014	-	2015	_	2016	_	2017	-	2018
Total Revenue			\$	150	\$	113,452	\$	223,452	\$	323,452	\$	503,452
Beginning Balance - Total Fixed Assets Capital Expenditures			_	22,021 8,253	_	25,711 33,134		51,123 45,970	1	84,125 65,569		129,327 59,240
Fixed Assets Capital Expenditures as a % of Revenue				30,274 5502.04%		58,845 29.21%		97,093 20.57%		149,694 20.27%		188,567 11.77%
Depreciation Assumptions as to Depreciable Lives: Beg. Dep. Existing Fixed Assets - avg life Capital Additions - avg life	5.0 7.5											
Beginning Balance 2014 Additions 2015 Additions 2016 Additions 2017 Additions 2018 Additions			\$	4,061 502	\$	4,430 1,095 2,198	\$	4,430 1,095 4,395 3,049	\$	4,430 1,095 4,395 6,098 4,349	\$	4,430 1,095 4,395 6,098 8,698 3,929
Total Depreciation As a % of Revenue			\$	4,562 3041.6%	\$	7,722 6.8%	\$	12,969 5.8%	\$	20,366 6.3%	\$	28,644 5.7%
Net Fixed Assets As a % of Revenue			\$	25,711 17140.8%	\$	51,123 45.1%	\$	84,125 37.6%	\$	129,327 40.0%	\$	159,923 31.8%
Historical Capital Expenditure Analysis			-	FYE 12-31-09		FYE 12-31-10	_	FYE 12-31-11	_	FYE 12-31-12		FYE 12-31-13
Net FA Chg from PY Depreciation (Gain)/Loss			\$	1,766 N/A 626	\$	2,630 864 771	\$	4,648 2,018 1,025	\$	19,557 14,909 2,654 9	\$	22,021 2,463 5,573 849
Capital Expenditures				N/A		1,635		3,043		17,572		8,885
Fixed Assets Fixed Assets as a % of Revenue	\$	Average 10,124 1074.0%	\$	1,766 63.2%	\$	2,630 187.7%	\$	4,648 <i>896.9%</i>	\$	19,557 N/A	\$	22,021 N/A
Capital Expenditures Capital Expenditures as a % of Revenue		7,784 825.7%		N/A N/A		1,635 116.7%		3,043 587.1%		17,572 N/A		8,885 N/A



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 75 of 156

US v. Elizabeth Holmes Valuation of Theranos, Inc As of February 7, 2014

Exhibit C.4 Discount Rate - Venture Capital Rates of Return

Company Name	Ticker Symbol	Market Capitalization	Interest Bearing Debt	Trading Volume [7]	LTM Revenue	1-Year Growth Rate	Equity as a of Total Capi
OraSure Technologies, Inc.	OSUR	5 337,504	5 -	713	\$ 98,940	12.7%	100.0
Trinity Biotech plc	TRIB	545,805		- 69	91,216	10.6%	100.
Enzo Biochem, Inc.	ENZ QDEL	135,102 964,525	3,992 5,567	209	92,929 177,325	-7.3% 13.9%	97
QuidelOtho Corporation Exact Sciences Corporation	EXAS	865,903	1,711	739	4,144	0.0%	99
OPKO Health, Inc.	OPK	3,106,222	227,744	4.324	96,530	105.2%	93
PerkinElmer, Inc.	PKI	4,920,548	934,728	829	2,157,586	2.5%	64
Quest Diagnostics Incorporated	DGX	7,315,200	3,366,000	2,520	7,146,000	-3.2%	68
Laboratory Corporation of America Holdings	LH	7,791,710	3,000,400	1,101	6,808,300	2.4%	72
Myriad Genetics, Inc.	MYGN	2,351,966 19,831,532	868,593	2,462	737,115	35 2%	100
Illumina, Inc. Qiagen N V	ILMN QGEN	5,280,047	850,202	1,595 892	1,421,178 1,301,984	3.8%	95
Alere Inc.	QT2622336	2,819,163	3,841,104	654	2,608,636	8 9%	42
Luminex Corporation	IQT2627430	734,789	1,657	170	213,423	5 4%	99
Abakis, Inc	IQT2586525	824,250	706	187	179,781	0.6%	99
CombiMatra Corporation	IQT36309071	25,342	233	75	6,367	19.0%	99
Allymetrix Inc Genomic Health, Inc.	IQT2587418 IQT24111615	518,522 815,172	144,461	1,231 218	330,399 261,595	11.8%	78
Cephed	IQT2599314	3,328,663		609	401,292	21 2%	100
Nanosphere, Inc.	IQT38720096	169,146	11,815	33	10,002	97.0%	93
GenMark Diagnostics, Inc.	IQT106626443	513,559	37	240	27,404	33.9%	100
Bio-Reference Laboratories, inc.	IQT2594421	723,947	52,630	424	735,368	15.5%	93
Average		2,905,528	605,072	886	1.086,705	19.3%	91.
Median		845,076	4,780	632	237,509	11.5%	98
Selected							97.
							-
Industry Capital Structure	08.3						
Equity	97.0%						
Interest Bearing Debt Tax Rate	3.0%						
(acronic	-40,0,4						
Cost of Equity							
and a management of the state	desiring a sec						Ref.
able 1: Venture Capital Average Actual Rates of							[1]
Stage of Development	5-year		10-year		20-year		
Seed/Early Stage	2002	3 0%	2002	2008	2002	2008	
alanced	20.9%	7.5%	20.9%	12.0%	14 396	14 5%	
ater Stage	10.6%	8.1%	21 6%	73%	15 3%	14.7%	
Ventures	28.3%	57%	26.3%	13.4%	16.6%	17.2%	
itage of Development	Plummer	Scherlis and Sahiman	Sahlman, Stevenson, and Bhide	Everett	Everett Median Returns		(2-5)
Stage of Development Start-up First slage or "early development" Second stage or "expansion"	50% - 70% 40% - 60% 35% - 50%	Sahiman 50% - 70% 40% - 60% 30% - 50%	Stevenson, and Bhide 50% - 100% 40% - 60% 30% - 40%	30% - 40% 23% - 38% 19% - 32%	Returns 33 0% 28 0% 25 0%		(2-3)
Stage of Development Start-up "rst stage or "expansion" Indge/IPO	50% - 70% 40% - 60%	Sahiman 50% - 70% 40% - 60%	Stevenson, and Bh/de 50% - 100% 40% - 60%	30% - 40% 23% - 38%	Returns 33 0% 26 0%		
stage of Development Start-up irst stage or "expansion" irst stage or "expansion" irdge/IPO	50% - 70% 40% - 60% 35% - 50%	Sahiman 50% - 70% 40% - 60% 30% - 50%	Stevenson, and Bhide 50% - 100% 40% - 60% 30% - 40% 20% - 30%	30% - 40% 23% - 38% 19% - 32% 18% - 38%	Returns 33 0% 28 0% 25 0%		(2-3)
Stage of Development Start-up "Ist stage or "exity development" econd stage or "expansion" sindge/IPO (able 3: Target Rates of Return	50% - 70% 40% - 60% 35% - 50%	Sahiman 50% - 70% 40% - 60% 30% - 50%	Stevenson, and Bhide 50% - 100% 40% - 60% 30% - 40%	30% - 40% 23% - 38% 19% - 32% 18% - 38%	Returns 33 0% 28 0% 25 0%		
Stage of Development Start-up "isst stage or "expansion" andge/IPO Table 3: Target Rates of Return Stage of Development	50% - 70% 40% - 60% 35% - 50% 25% - 35% Ruhnka / Young	Sahiman 50% - 70% 40% - 60% 30% - 50% 20% - 35% Weizel	Stevenson, and Bhide 50% - 100% 40% - 60% 30% - 40% 20% - 30% Plumme Range of Discou High	30% - 40% 23% - 38% 19% - 32% 18% - 38% r/Qed int Rates Used Low	Returns 33 0% 28 0% 25 0%		
Table 2: Target Rates of Return Stage of Development Status or "early development" statage or "expansion" studge/IPO Table 3: Target Rates of Return Stage of Development Stage of Development	50% - 70% 40% - 60% 35% - 50% 25% - 35% Ruhnka / Young 73.0%	Sahiman 50% - 70% 40% - 60% 30% - 50% 20% - 35% <u>Weizel</u> 50.0%	Stevenson, and Bhide 50% - 000% 40% - 60% 30% - 40% 20% - 30% Plumme Range of Discos High 75.4%	30% - 40% 23% - 38% 19% - 32% 18% - 38% r/ Qed nit Rates Used Low 49.2%	Returns 33 0% 28 0% 25 0%		
Stage of Development Start-up Second stage or "expansion" Sindge/IPO Fable 3: Target Rates of Return Stage of Development Seage of Development Sear-up	50% - 70% 40% - 60% 35% - 50% 25% - 35% Ruhnka / Young 73.0% 54.8%	Sahiman 50% - 70% 40% - 60% 30% - 50% 20% - 35% 20% - 35% 20% - 35%	Stevenson, and Bhide 50% - 100% 40% - 60% 30% - 40% 20% - 30% 20% - 30% 20% - 30% Planme Range of Discou High 75,4% 59.6%	30% - 40% 23% - 38% 19% - 32% 18% - 32% 18% - 38% // Qed int Rates Used Low 49 2% 40 5%	Returns 33 0% 28 0% 25 0%		
Rage of Development Start-up Inst-tup Inst-stage or "expansion" Indge/IPO (able 3: Target Rates of Return Stage of Development lead Start-up Inst-up Inst-up Inst-up	50% - 70% 40% - 60% 35% - 50% 25% - 35% 25% - 35% 730% 54.8% 42,2%	Sahiman 50% - 70% 40% - 60% 30% - 50% 20% - 35% 20% - 35% 50.0% 50.0% 50.0% 50.0%	Stevenson, and <u>Bhde</u> 50% - 100% 40% - 60% 30% - 40% 20% - 30% Plumme Range of Discos High 75,4% 59 6% 49 3%	30% - 40% 23% - 38% 19% - 32% 18% - 38% // Qed int Rates Used Low 49.2% 40.5% 34.7%	Returns 33 0% 28 0% 25 0%		
Stage of Development Start-up Start-up Second stage or "expansion" sindge/IPO (able 3: Target Rates of Return (able 3: Target Rates of Return (b) (b) (c) (c) (c) (c) (c) (c) (c) (c	50% - 70% 40% - 60% 35% - 50% 25% - 35% Ruhnka / Young 73.0% 54.8%	Sahiman 50% - 70% 40% - 60% 30% - 50% 20% - 35% 20% - 35% 20% - 35%	Stevenson, and Bhide 50% - 100% 40% - 60% 30% - 40% 20% - 30% 20% - 30% 20% - 30% Planme Range of Discou High 75,4% 59.6%	30% - 40% 23% - 38% 19% - 32% 18% - 32% 18% - 38% // Qed int Rates Used Low 49 2% 40 5%	Returns 33 0% 28 0% 25 0%		
Nage of Development Start-up First stage or "expansion" Indge/IPO sable 3: Target Rates of Return stage of Development lead start-up ourth Stage will Stage	50% - 70% 40% - 60% 35% - 50% 25% - 35% 25% - 35% 73.0% 54.8% 42.2% 35.0% 35.0%	Weizel 50 70% 40% 60% 30% 50% 20% 35% Weizel 50,0% 50,0% 50,0% 50,0% 50,0% 30,0% 50,0% 30,0% 50,0% 30,0% 50,0% 30,0% 50,0% 30,0% 50,0% 30,0% 50,0% 30,0% 50,0% 30,0% 50,0%	Stevenson, and <u>Bhide</u> <u>Bhide</u> 50% - 100% 40% - 60% 20% - 30% 20% - 30% 20% - 30% Plamme <u>Range of Discou- High</u> <u>High</u> 49,3% 49,3% 40,8%	30% - 40% 23% - 38% 19% - 32% 18% - 32% 18% - 38% // Qed int Rates Used Low 49,2% 40,5% 40,5% 34,7%	Returns 33 0% 28 0% 25 0%		(6)
Nage of Development Start-up First stage or "expansion" Indge/IPO sable 3: Target Rates of Return stage of Development lead start-up ourth Stage will Stage	50% - 70% 40% - 60% 35% - 50% 25% - 35% 25% - 35% 73.0% 54.8% 42.2% 35.0% 35.0%	Weizel 50 70% 40% 60% 30% 50% 20% 35% Weizel 50,0% 50,0% 50,0% 50,0% 50,0% 30,0% 50,0% 30,0% 50,0% 30,0% 50,0% 30,0% 50,0% 30,0% 50,0% 30,0% 50,0% 30,0% 50,0% 30,0% 50,0%	Stevenson, and <u>Bhide</u> <u>Bhide</u> 50% - 100% 40% - 60% 20% - 30% 20% - 30% 20% - 30% Plamme <u>Range of Discou- High</u> <u>High</u> 49,3% 49,3% 40,8%	30% - 40% 23% - 38% 19% - 32% 18% - 32% 18% - 38% // Qed int Rates Used Low 49,2% 40,5% 40,5% 34,7%	Returns 33 0% 28 0% 25 0%		
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itage of Development Tart-up Tart-up tecond stage or "expansion" indge/PO able 3: Target Rates of Return tage of Development end tart-up rd Stage outh Stage set Stage able 4: Theranos Investor Forecasts Implied In westor Group	50% - 70% 40% - 60% 35% - 50% 25% - 35% 25% - 35% 25% - 35% 73.0% 54.8% 42.2% 35.0% 35.0% 35.0%	Weizel 50 70% 40% 60% 30% 50% 20% 35% Weizel 50,0% 50,0% 50,0% 50,0% 50,0% 30,0% 50,0% 30,0% 50,0% 30,0% 50,0% 30,0% 50,0% 30,0% 50,0% 30,0% 50,0% 30,0% 50,0% 30,0% 50,0%	Stevenson, and <u>Bhide</u> <u>Bhide</u> 50% - 100% 40% - 60% 20% - 30% 20% - 30% 20% - 30% Plamme <u>Range of Discou- High</u> <u>High</u> 49,3% 49,3% 40,8%	30% - 40% 23% - 38% 19% - 32% 18% - 32% 18% - 38% // Qed int Rates Used Low 49,2% 40,5% 40,5% 34,7%	Returns 33 0% 28 0% 25 0%		(6)
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[2] Plummer, James L, OED Report on Venture Capital and Financial Analysis.
 [3] Scherist, Daniel R, and William A. Sahlman, "A Method for Valuing High-Risk, Long Term, Investments: The Venture Capital Method," Harvard Business School Publishing, 1989.
 [4] William A. Sahlman, Howard H. Stevenson, Amar V. Bildie, et al., "Financing Entrepreneural Ventures," Business Fundamental Series (Boston Harvard Business School Publishing, 1998).

Grag R. Everet, "2021 Private Capital Markets Report" (Malibu Pepperdine University Graziadio School of Business and Management, 2021), Table
 [5] 1; p. 5 Note that this publication also includes rates of return for many other types of private capital investments, as well as summaries of other
 information capitared in Pepperdine's annulal industry survey
 [6] Dorsey, Teny, "A Portfolio Model for Venture Capital Performance Measurement and investment Selection," Polaris Group, Inc. January 2000.
 [7] Refer to the report for discussion of the selected Venture Capital Rate of Return

Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 76 of 156

US v. Elizabeth Holmes	Exhibit C.5
Valuation of Theranos, Inc.	Forecast Free Cash Flow to Invested Capital
As of February 7, 2014	(thousands of USD)

				For	the Twelve N	Ionth	Period Endir	ng De	cember 31,		
		- 72	2014		2015	_	2016	_	2017	1	2018
Total Revenue Total Cost of Revenue		\$	150 53	\$	113,452 39,708	\$	223,452 71,505	\$	323,452 103,505	\$	503,452 151,036
Gross Margin GM %			97 64.7%		73,744 65.0%		151,947 68.0%		219,947 68.0%	1	352,416 70.0%
Total Operating Exper Operating Expense %		-	100,031 66687.3%		97,025 <i>85.5%</i>		99,961 44.7%	=	108,977 33.7%	11	124,401 24.7%
EBITDA EBITDA %			(99,934) -66622.7%		(23,281) -20.5%		51,986 23.3%		110,970 34.3%		228,015 45.3%
Less: Partial Period /	Adjustment		8,328			_		-			
Adjusted EBITDA			(91,606)		(23,281)		51,986	-	110,970		228,015
Depreciation & Amorti	zation	1	4,562	_	7,722	_	12,969	_	20,366	c	28,644
EBIT EBIT %			(96,169) -64112.3%		(31,003) -27.3%		39,017 17.5%		90,604 28.0%		199,37 1 39.6%
Interest Expense		_	4			,		_		_	
Earnings Before Taxe Income Taxes	S	-	(96,169)	_	(31,003)	_	39,017	_	90,604		199,37 42,26
Forecast After-Tax Ir NPAT %	ncome	\$	(96,169) -64112.3%	\$	(31,003) -27.3%	\$	39,017 17.5%	\$	90,604 28.0%	\$	157,10 31.29
Cash Flow											
Add: Depreciation & After-Tax Gros			4,562 (91,606)	-	7,722 (23,281)	-	12,969 51,986		20,366 110,970	-	28,644 185,750
Decrease / (Inc Less: Capital Experio	crease) in Working Capital litures		(33,712) (8,253)		(34,150) (33,134)		(18,930) (45,970)		(24,283) (65,569)		(45,972 (59,240
Free Cash Flow		\$	(133,571)	\$	(90,565)	\$	(12,914)	\$	21,118	\$	80,538



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 77 of 156

US v. Elizabeth Holmes	Exhibit C.6
Valuation of Theranos, Inc.	Discounted Cash Flow Method Value Summary
As of February 7, 2014	(thousands of USD)

Forecast Period		Base Cash Flow	Period	Discount Rate	PV Factor [2]		scounted sh Flow [3]
2014	\$	(133,571)	0.45	44.0%	0.8494	\$	(113,454)
2015		(90,565)	1.40	44.0%	0.6012		(54,450)
2016		(12,914)	2.40	44.0%	0.4175		(5,392)
2017		21,118	3.40	44.0%	0.2899		6,123
2018		80,538	4.40	44.0%	0.2013		16,216
Terminal Value [1]		3,000,000	4.90	44.0%	0.1678	1	503,372
Indicated Value						\$	352,416
Add: C-2 Financing P	roceed	is not on 12/31/13	balance sheet				114,390
Add: C-1 Financing P	roceed	is not on 12/31/13	balance sheet				6,556
Deduct: Interest Bear	ing De	bt					(42,386)
Total Equity Value -	Contr	olling, Marketable	Basis			\$	430,975
Total Equity Value -	Contr	olling, Marketable	Basis (rounded)			\$	431,000

Notes:

[1] Refer to Exhibit D.1
 [2] 1 / (1 + Discount Rate) ^ Period.
 [3] Base Cash Flow x PV Factor.



US v. Elizabeth Holmes		
Valuation of Theranos, Inc.	 	

As of February 7, 2014

Exhibit D.1

Guideline Public Company Method (Ihousands of USD)

			Debt,							1. State 1.			ue of invested		
	-	Market	Pref Shr &	100.00			enue	EBI		EBIT	Reve		EBIT	DA	EBIT
Name	Ticker	Cap	Min Int.	Cash	MVIC [1]	LTM	2014E	LTM	2014E	LTM	LTM	2014E	LTM	2014E	LTM
OraSure Technologies, Inc.	OSUR	\$ 337,504	\$ -	\$ 93,191	\$ 244,313	\$ 98,940	\$ 104,732	\$ (13,910)	\$ (11,967)	\$ (20,462)	2.47x	2.33x	NA	NA	NA
Trinity Biotech pic	TRIB	545,805	10. J. (1997)	22,317	523,488	91,216	110,443	19,006	NA	15,416	5.74x	4.74x	27.54×	NA.	33.96
Enzo Biochem, Inc.	ENZ	138 102	3,992	7,621	134,473	92,929	97.348	(11.277)	(9,200)	(15,573)	1.45x	1.38x	NA	NA	NA
QuidelOrtho Corporation	QDEL	964,525	5,567	8,388	961,704	177,325	199,864	30,867	53,570	6,667	5.42x	4.81x	31.16x	17,95x	144.25
Exact Sciences Corporation	EXAS	865,903	1,711	133,259	734,355	4,144	28,311	(45,343)	(49,052)	(46,761)	NA	25.94x	NA	NA	NA
OPKO Health, Inc.	OPK	3,106,222	224,313	185,798	3,144,737	96,530	102.743	(57,469)	NA	(72,685)	32,58x	30,61x	NA	NA	NA
PerkinElmer, Inc.	PKI	4,920,548	934,728	173,242	5,682,034	2,157,586	2,283,690	389.970	444,503	263,091	2.63x	2.49x	14.57x	12.78x	21.60
Quest Diagnostics Incorporated	DGX	7,315,200	3.391,000	187,000	10,519,200	7,146,000	7,204,659	1,439,000	1,425,874	1,155,000	1.47x	1.46x	7.31%	7.38x	9.10
Laboratory Corporation of America Holdings	LH	7,791,710	3,019,800	404,000	10,407,510	5,808,300	5,920,847	1,203,500	1.176.931	1.012.700	1.79x	1.76x	8.65x	8.84x	10.28
Myriad Genetics, Inc.	MYGN	2,351,966	1.	353,595	1,998,371	737,115	712,147	300,472	239,889	291,227	2.71x	2.81x	6.65x	8.33x	6.86
Illumina, Inc.	ILMN	19.831.532	868,593	1,165,603	19,534,522	1,421,178	1,671,408	363,622	493,335	265.697	13.75x	11.69x	53.72x	39.60x	73.52
Qiagen N.V.	QGEN	5,280,047	859,741	380,226	5,759,562	1,301,984	1.371.150	382,685	457,917	188,130	4.42x	4.20x	15.05x	12.58x	30.61
Alere Inc.	IQT2622336	2,819,163	4,452,454	356,289	6,915,328	2,508,636	3,085,506	546,428	673.094	171,771	2.65x	2.24×	12.66x	10.27x	40.26
Luminex Corporation	IQT2627430	734,789	1,657	72,441	664,005	213,423	230,083	25,707	50,037	9,785	3.11x	2.89x	25.83x	13.27x	67.86
Abaxis, Inc.	IQT2586525	824,250	706	101,830	723,126	179,781	191,556	31,289	33.025	23,944	4.02x	3.78x	23.11x	21.90x	30.20
CombiMatrix Corporation	IQT36309071	25,342	233	14,036	11.539	6,367	6,959	(5,353)	NA	(6,051)	1.81x	1.66x	NA	NA	NA
Affymetrix Inc.	IQT2587418	518,522	144,461	57,128	605,855	330,399	335,643	45,802	43,787	5,814	1.83x	1.81x	13.23x	13.84x	88.91
Genomic Health, Inc.	IQT24111615	815,172		105,350	709,822	261,595	286,115	(5,508)	(18,086)	(11,832)	2.71x	2.48x	NA	NA	NA
Cepheid	IQT2599314	3,328,663	-	74,909	3,253,754	401,292	456,698	6,477	16.305	(14.710)	8.11x	7.12x	NA.	NA	NA
Nanosphere, Inc.	IQT38720096	169,146	11,815	41,467	139,494	10,002	19,719	(31,689)	(29.322)	(33,721)	13.95x	7.07x	NA	NA	NA
GenMark Diagnostics, Inc.	IQT106626443	513,559	37	105,589	408.007	27,404	26,812	(27,134)	(33,133)	(29,362)	14.89x	15,22x	NA	NA	NA
Bio-Reference Laboratones, Inc.	IQT2594421	723,947	52,630	14,533	762,044	735,368	B01,467	93,075	115,197	72,094	1.04x	0.95x	8.19x	6.62x	10.57
Correlation to MVIC						0.65	0.67	0.51	0.66	0.57					
Correlation to Price						0.49	0.51	0.44	0.48	0.44					

Upper Quartile		5.74x	6.51x	25.83x		14.87x		67.86x
Mean		6.12x	6.34x	19.05x		14.45x		43.69x
Median		2.71x	2.85x	14.57x		12.68x		30.61x
Lower Quartile		1.83x	1.91x	8.65x	_	8.71x	_	10.57x
Selected Multiple		6.10x		12.60x				
Subject Company Base Value	5 5	03,452 \$	-	\$ 228,015	5	14.5	\$	199,371
Indicated Equity Value	\$ 3,0	71,057 \$		\$ 2,872,989	5	1.		4
Weighting		33.3%	0.0%	66.7%		0.0%	_	0.0%
Indicated Value							5	2,939,012
Add: Subject Company Cash								61,348
Total invested Capital Value at 12/31/1	8 Exit - Coolin	lling Marketal	his Basis					3,000,360
	o LAN - OUNTO	und, markera	NIN INSIST				-	3,000,300
Total Invested Capital Value at 12/31/1	8 Exit - Contro	lling, Marketal	ble Basis (rounded)			5	3,000,000

Notes: Source: S&P Capital IQ. [1] MVIC = Market Value of Invested Capital. Presented as net of cash.



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 79 of 156

Valuation of Theranos, Inc. As of February 7, 2014												-			Suideline P	ublic Compa	any Key Fina (thousan	ncial Ratios ds of USD)
		1.11	Sec.									2	Sec. 6			2 < 10		
Name	Ticker	Market Cap	Trading Volume [1]	LTM Revenue	CAGR Re 1 Year	3 Year	2014E	2015E	2016E	GM	EBITDA	As a % of D&A	EBIT	Capex	WC [3]	Current Ratio	Debt to Equity	Debt to TNW
OraSure Technologies, Inc.	OSUR	\$ 337,504	713	\$ 98,940	12.7%	9.7%	5.9%	14.5%	10.9%	59.2%	-14.1%	0.0%	-20.7%	2,5%	195,9%	6.30	0.0%	0.0%
Trinity Biotech plc	TRIB	545,805	69	91,216	10.6%	0.6%	21.1%	14.5%	NA	49.6%	20.8%	0.0%	16.9%	4,9%	61,1%	3,66	0.0%	0.0%
Enzo Blochem, Inc.	ENZ	138,102	209	92,929	-7.3%	-1.8%	4.8%	12.4%	15.2%	41.8%	-12.1%	0.0%	-16,8%	0.9%	8.6%	1.35	12.4%	25.5%
QuidelOrtho Corporation	QDEL	964,525	193	177,325	13.9%	16.1%	12.7%	18.0%	13.2%	62.2%	17.4%	4.6%	3,8%	11.7%	30,8%	3.27	2.5%	6.9%
Exact Sciences Corporation	EXAS	865,903	739	4,144	NA	-8.1%	N/A	212.6%	90.4%	100.0%	N/A	0.0%	-1128.4%	N/A	3081.7%	17.47	1.3%	1.3%
OPKO Health, Inc.	OPK	3,106,222	4,324	96,530	105,2%	50,2%	6,4%	41.0%	62.2%	31.1%	-59.5%	11.5%	-75.3%	4.1%	156.3%	2.64	26.1%	-102.9%
PerkinElmer, Inc.	PKI	4,920,548	829	2,157,586	2.5%	8,2%	5,8%	5.3%	5.1%	45.3%	18.1%	0.0%	12.2%	1.8%	20.5%	1.73	46.9%	-153.5%
Quest Diagnostics Incorporated	DGX	7,315,200	2,520	7,146,000	-3.2%	-0.5%	0,8%	1.1%	0.5%	40.1%	20,1%	1,1%	16.2%	3.2%	3.5%	1.22	84.7%	-130.9%
aboratory Corporation of America I	LH	7,791,710	1,101	5,808,300	2.4%	5.1%	1.9%	2.1%	2.6%	38.3%	20.7%	1.4%	17.4%	3.5%	12.0%	1.95	119.5%	-144.0%
Myriad Genetics, Inc.	MYGN	2,351,966	2,462	737,115	35.2%	25.0%	-3.4%	97%	-18.1%	87.2%	40.8%	0.0%	39.5%	1.7%	52.5%	6.74	0.0%	0.0%
llumina, Inc.	ILMN	19,831,532	1,595	1,421,178	23.7%	16.3%	17.6%	18.3%	19.0%	68.3%	25.6%	2.4%	18.7%	5.6%	91.2%	5.02	56.7%	181.3%
Qiagen N.V	QGEN	5,280,047	892	1,301,984	3.8%	6.2%	5.3%	6.2%	6.1%	65.7%	29.4%	2.7%	14.4%	6.5%	44.8%	2.73	31.2%	1093.2%
Alere Inc.	IQT2622336	2,819,163	654	2,608,636	8.9%	6.6%	18.3%	5.4%	4.1%	50.6%	20.9%	0.0%	6.6%	3.8%	38.4%	2.30	184.8%	-151.0%
Luminex Corporation	IQT2627430	734,789	170	213,423	5.4%	14.7%	7.8%	8.8%	8.7%	68.5%	12.0%	1.9%	4.6%	8.5%	55.2%	5.14	0.6%	1.0%
Abaxis, Inc.	IQT2586525	824,250	187	179,781	0,6%	8.7%	6.5%	12.3%	NA	49.1%	17.4%	0.0%	13.3%	3.1%	84.0%	9.42	0.4%	0.49
CombiMatrix Corporation	IQT36309071	25,342	75	6,367	19.0%	21.5%	9.3%	16:2%	16.3%	44.6%	-84.1%	2.4%	-95.0%	4.8%	218.7%	7.62	1,6%	1.6%
Affymetrix Inc.	IQT2587418	518,522	1,231	330,399	11.8%	2.1%	1.6%	2.7%	2.5%	59.3%	13.9%	0.0%	2.1%	1.5%	29.9%	2.28	53.2%	-682.8%
Genomic Health, Inc.	IQT24111615	815,172	218	261,595	11.2%	13.7%	9.4%	12.8%	30.6%	79.6%	-2.1%	0.0%	-4.5%	4.2%	44.0%	4.86	0.0%	0.0%
Cepheid	IQT2599314	3,328,663	609	401,292	21.2%	23.6%	13.8%	15.5%	15.5%	48.5%	2.1%	0.0%	-3.7%	11.8%	37.0%	2.56	0.0%	0.09
Nanosphere, Inc.	IQT38720096	169,146	33	10,002	97.0%	70.3%	97.1%	70.7%	64.2%	-149.9%	N/A	0.0%	-337.1%	14.0%	465.0%	8.17	27.4%	29.09
GenMark Diagnostics, Inc.	IQT105626443	513,559	240	27,404	33.9%	120.3%	-2.2%	57.7%	78.2%	47.5%	-99.0%	0.0%	-107.1%	15.6%	368.1%	10,85	0.0%	0.0%
Bio-Reference Laboratories, Inc.	QT2594421	723,947	424	735,368	15.5%	15.2%	9.0%	NA.	NA	45.3%	12.7%	2.9%	9.8%	3.1%	22.2%	2.20	19.1%	23.59
Upper Quartile		\$ 3,273,053	1,049	\$ 1,160,767	21.2%	20.2%	12:7%	18.0%	24.8%	64.9%	20.7%	2.3%	14.2%	6.5%	140.0%	6,63	43.0%	5.6%
Mean		2,905,528	886	1,086,705	20.2%	19.3%	11.9%	26.6%	22.5%	47.0%	0.1%	1.4%	-73.3%	5.6%	232.8%	4.98	30.4%	-0.19
Median		845,076	632	237,509 93,829	11,8% 3,8%	11.7%	6.5% 4.8%	12.8% 6.2%	13.2%	49.3%	15.6%	0.0%	4.2%	4.1%	48.7%	3.47	7.4%	0.09
Lower Quartile		525,342	191	93/059	3.8%	0.4%	9.8%	0,2%	4.6%	44,8%	-4.6%	0.0%	-19.7%	3.1%	30.1%	2.29	0.1%	-77.2%
Theranos, Inc. (at 12/31/18)		NA	NA	\$ 503,452	55.6%	64.3%	28.0%	NA	NA	70.0%	45.3%	5.7%	39.6%	11.8%	18.6%	2.39	N/A	N/A

Notes: Source: S&P Capital IQ. (1) Represents trailing 3-month average daily trading volume (in thousands) [2] CAGR = Compound Annual Growth Rate [3] Working capital excludes cash



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 80 of 156

n of Theranos, Inc.	Guideline Public Company Descriptions
abruary 7, 2014	
Ticker Description	
Technologies, Inc. OSUR OraSure Technologies, Inc., together with its subsidiaries, develops, manufactures, products and specimen collection devices in the United States, Europe, and international	
Notech pic TRIB Trinity Biotech pic acquires, develops, manufactures, and markets medical diagnostic pr of-care (PQC) segments of the diagnostic market in the Americas, Africa, Asia, and Eur	
ochem, Inc. ENZ Enzo Biochem, Inc., an integrated diagnostics, clinical tab, and life sciences company, markets diagnostic and research products based on genetic engineering, biotechnology.	
ortho Corporation ODEL QuidelOrtho Corporation focuses on the development and manufacture of diagnostic to of healthcare testing needs.	testing technologies across the continuum
ciences Corporation EXAS Exact Sciences Corporation provides cancer screening and diagnostic test products in t	the United States and Internationally.
tealth, Inc. OPKO Health, Inc., a fleaithcare company, engages in the diagnostics and pharmac ireland, Chile, Spain, Istael, Mexico, and internationally.	euticals businesses in the United States,
Imer, Inc. PKI PerkinElmer, Inc. provides products, services, and solutions to the diagnostics, life worldwide.	sciences, and applied services markets
Diagnostics Incorporated DGX Quest Diagnostics Incorporated provides diagnostic testing, information, and services in	n the United States and internationally.
ory Corporation of America Holdings LH Laboratory Corporation of America Holdings operates as a global life sciences compr doctors, hospitals, pharmaceutical companies, researchers, and patients make clear an	
Génetics, Inc. MYGN Myriad Genetics, Inc., a genetic testing and precision medicine company, develops United States and internationally.	and commercializes genetic tests in the
, Inc. ILMN Illumina, Inc. provides sequencing and array-based solutions for genetic and genomic a	analysis.
N.V. QGEN QIAGEN N.V, offers sample to insight solutions that transform biological materials into r	molecular insights worldwide.
c. IQT2622336 Alere Inc. provides diagnostic tests for infectious disease, cardiometabolic disease, internationally.	, and toxicology in the United States and
x Corporation IQT2627430 Luminex Corporation develops, manufactures, and sells proprietary biological tes diagnostics, phermaceutical, and research industries worldwide.	sting technologies and products for the
Inc. IQT2586525 Abaxis. Inc. develops, manufactures, markets, and sells portable blood analysis syste care to provide rapid blood constituent measurements for clinicians worldwide.	ems for use in human or veterinary patien
Astrix Corporation IQT36309071 CombiMatrix Corporation provides clinical molecular diagnostic laboratory services in th	ne United States.
rix Inc. IQT2587418 Affymetrix, Inc. provides life science products and molecular diagnostic products t systems at the gene, protein, and cell level.	that enable parallel analysis of biologica
Ic Health, Inc. IQT24111615 Genomic Health, Inc., a healthcare company, provides clinically actionable genomic in decisions in the United States and internationally.	nformation to personalize cancer treatmen
d Cepheid, a molecular diagnostics company, develops, manufactures, and markets int and non-clinical markets.	legrated systems for testing in the clinica
here, Inc. IQT38720096 Nanosphere, Inc. develops, manufactures, and markets molecular diagnostic tests fo realistance markets for earlier disease detection, optimal patient treatment, and improve	
rk Diagnostics, Inc. designs and manufactures multiplex molecular diagnostic s rk Diagnostics, Inc. IQT105625443 quality metrics, and reduce the total cost-of-care for laboratory professionals, healthca States and internationally.	
erence Laboratories, Inc. IQT2594421 Bio-Reference Laboratories, Inc. provides clinical laboratory testing services for the de	etection, diagnosis, evaluation, monitoring

Notes: Source: S&P Capital IQ.



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 81 of 156

US v. Elizabeth Holmes Valuation of Theranos, Inc.				Guideline Public Co	Exhibit D.4
As of February 7, 2014				(Intel	sands of USD)
Size		Liquidity	- 4	Liquidity	
(Revenue, millions) Quest Diagnostics Incorporated \$	7.146.000	(Operating Net Working Capital-to-Reve Quest Diagnostics Incorporated	nue) 3.5%	(Current Ratio) Exact Sciences Corporation	17.47
Laboratory Corporation of America Holdi	5,808,300	Enzo Biochem, Inc	8.6%	GenMark Diagnostics, Inc.	10.85
Alere Inc.	2,608,636	Laboratory Corporation of America Holdir	12.0%	Abaxis, Inc.	9.42
PerkinElmer, Inc.	2 157 586	[Theranos, Inc. (at 12/31/18)	18.6%	Nanosphere, Inc.	8.17
Illumina, Inc.	1,421,178	PerkinElmer, Inc.	20.5%	CombiMatrix Corporation	7.62
Qiagen N.V.	1.301.984	Bio-Reference Laboratories, Inc.	22.2%	Myriad Genetics, Inc.	674
Myriad Genetics, Inc	737,115	Affymetrix Inc.	29.9%	OraSure Technologies, Inc	6.30
Bio-Reference Laboratories, Inc.	735,368	QuidelOrtho Corporation	30.8%	Luminex Corporation	5.14
Theranos, Inc. (at 12/31/18)	503,452	Cepheid	37.0%	Illumina, Inc.	5.02
Cepheid	401,292	Alere Inc.	38.4%	Genomic Health, Inc.	4.86
Affymetrix Inc.	330,399	Genomic Health, Inc.	44.0%	Trinity Blotech plc	3.66
Genomic Health, Inc. Luminex Corporation	261,595 213,423	Qiagen N.V.	44.8%	QuidelOrtho Corporation	3.27
Abaxis Inc.	179,781	Myriad Genetics, Inc. Luminek Corporation	52,5%	Qiagen N.V.	2.73
GuidelOrtho Corporation	177,325	Trinity Biotech plc	55.2% 61.1%	OPKO Health, Inc. Cepheid	2.64
OraSure Technologies, Inc.	98,940	Abaxis, Inc.	84.0%	Theranos, Inc. (at 12/31/18)	2.56
OPKO Health, Inc.	96,530	Illumina, Inc.	91.2%	Alere Inc	2.30
Enzo Biochem, Inc.	92,929	OPKO Health, Inc.	156.3%	Attymetro Inc.	2 28
Trinity Blotech plc:	91,216	OraSure Technologies, Inc.	195.9%	Bio-Reference Laboratories, Inc.	2.20
GenMark Diagnostics. Inc.	27,404	CombiMatrix Corporation	218.7%	Laboratory Corporation of America Holdir	1.95
Nanosphere, Inc.	10,002	GenMark Diagnostics, Inc.	368 196	PerkinElmer, Inc.	1.73
CombiMatrix Corporation	6,367	Nanosphere, Inc.	465.0%	Enza Biochem, Inc.	1.35
Exact Sciences Corporation	4,144	Exact Sciences Corporation	3081 7%	Quest Diagnostics incorporated	1.22
Operational Efficiency		Growth		Growth	
(Capital Expenditures)		(Historical 1-year Growth Rate)		(Historical 3-year CAGR)	
Enzo Blochem, Inc.	0,9%	OPKO Health, Inc.	105.2%	GenMark Diagnostics, Inc.	120.3%
Affymetrix Inc.	1.5%	Nanosphere, Inc	97.0%	Nanosphere, Inc.	70.3%
Myriad Genetics, Inc.	1.7%	Theranos, inc. (at 12/31/18)	55.6%	Theranos, Inc. (at 12/31/16)	64.3%
PerkinElmer, Inc.	1.8%	Myriad Genetics, Inc.	35,2%	OPKO Health, Inc.	50,2%
OraSure Technologies, Inc. Abaxis, Inc.	2.5%	GenMark Diagnostics. Inc. Illumina, Inc.	33.9%	Myriad Genetics, Inc.	25.0%
Bio-Reference Laboratories, Inc.	3 1%	Cepheid	23.7%	Cepheid	23.6%
Quest Diagnostics Incorporated	3.2%	CombiMatrix Corporation	19.0%	CombiMatrix Corporation	21,5%
Laboratory Corporation of America Heldir	3.5%	Bio-Reference Laboratories, Inc.	15.5%	QuidelOrtho Corporation	16.3%
Alere inc.	3.8%	QuidelOrthe Corporation	13 9%	Bio-Reference Laboratories, Inc.	15,2%
OPKO Health, Inc.	4.1%	OraSure Technologies, Inc.	12.7%	Luminex Corporation	14.7%
Genumic Health, Inc	4,2%	Affymetrix Inc.	11.8%	Genomic Health, Inc.	13.7%
CombiMatrix Corporation	4.8%	Genomic Health, Inc.	11.2%	OraSure Technologies, Inc.	9.7%
Trinity Biotech pic	4.9%	Trinity Biotech plc	10.6%	Abaxis, Inc	8.7%
Illumina, Inc.	5.6%	Alere Inc.	8.9%	PerkinElmer, Inc	8,2%
Qiagen N.V.	6.5%	Luminex Corporation	5.4%	Alere Inc.	6.6%
Luminex Corporation	8.5%	Qiagen N.V.	3 8%	Qiagen N.V.	6,2%
QuidelOrtho Corporation	11.7%	PerkinElmer, Inc.	2 5%	Laboratory Corporation of America Holdin	5.1%
Theranos, Inc. (at 12/31/18) Cepheid	11.8%	Laboratory Corporation of America Holdin	2.4%	Affymetrix Inc.	2.19
Nahosphere, Inc.	11.8%	Abaxis, Inc. Quest Diagnostics Incorporated	0.6%	Trinity Biotech plc	0.6%
GenMark Diagnostics, Inc.	15.6%	Enzo Blochem, Inc.	-3.2%	Quest Diagnostics Incorporated. Enzo Blochem, Inc.	-0.5%
General Diagnostics, inc	12.0 %	Enzo Biochem, mic	-1.3%	Exact Sciences Corporation	-1.65
Growth (Forward 1-year Growth Rate)		Profitability (Historical EBITDA Margin 1-year)		(Return on Equity)	
Nanosphere, Inc.	97,1%	Theranos, Inc. (at 12/31/18)	45.3%	Myriad Genetics, Inc.	27.2%
Theranos, Inc. (at 12/31/18)	28.0%	Myriad Genetics, Inc.	40.8%	Bio-Reference Laboratories, Inc.	15.39
Trinity Biotech plc	21.1%	Qiagen N V	29.4%	Laboratory Corporation of America Holdin	11.69
Alere Inc.	18.3%	Illumina, Inc.	25.6%	Quest Diagnostics incorporated.	9 79
Illumina, Inc.	17.6%	Alere Inc.	20.9%	Abaxis, Inc.	8.5%
Cepheid	13.8%	Trinity Biotech plc	20.8%	Illumina, Inc.	7.3%
QuidelOrtho Corporation	12.7%	Laboratory Corporation of America Holdin	20.7%	PerkinElmer, Inc.	5.7%
Genomic Health, Inc.	9.4%	Quest Diagnostics Incorporated	20.1%	Trinity Biotech plc.	5.5%
CombiMatrix Corporation	9.3%	PerkinElmer, Inc.	15.1%	Qlagen N.V.	3.3%
Bio-Reference Laboratorina, Inc.	9.0%	QuidelOrtho Corporation	17,4%	Luminex Corporation	2.3%
Luminex Corporation Abaxis, Inc.	7.8%	Abaxis, Inc. Affymetrix Inc.	17.4%	QuidelOrthe Corporation Alere Inc.	1.9%
OPKO Health, Inc.	6.4%	Bio-Reference Laboratories Inc.	13.9%	Alere Inc. Affymetrix Inc.	1.89
OraSure Technologies, Inc.	5.9%	Luminex Corporation	12.0%	Theranes, Inc. (at 12/31/18)	1.0%
PerkinElmer, Inc.	5.8%	Cepheid	2.1%	Cepheid	-3.45
Qiagen N.V.	5.3%	Genomic Health, Inc	-2.1%	Genomic Health, Inc.	-5.51
Enzo Biochem, Inc.	4.8%	Enzo Biochem, Inc	-12 1%	OPKO Health, Inc.	-6.85
Laboratory Corporation of America Holdin	1.9%	OraSure Technologies, Inc.	-14.1%	OraSure Technologies, Inc.	-7.7
Affymetrix Inc.	1.6%	OPKO Health, Inc	-59 5%	GenMark Diagnostics, Inc.	-22.13
Quest Diagnostics Incorporated	0.8%	CombiMatrix Corporation	-84.1%	Exact Sciences Corporation	-24.69
GenMark Diagnostics, Inc.	-2.2%	GenMark Diagnostics, Inc.	-99.0%	Enza Biochem, Inc.	-25.19
Myriad Genetics, inc.	-3.4%			Nanosphere, Inc.	-43,49
				CombiMatrix Corporation	-51.69



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 82 of 156

12/31/2013 Unadjusted Adjustments Adjusted Assets: Current Assets Current Operating Assets 1519 Current Operating Assets 11 \$ 30,966 \$ 120,946 \$ 151,91 Accounts Receivable 3777 - 377 Inventory 3,777 - 377 Total Current Operating Assets 36,523 120,946 157,46 Total Current Non-Operating Assets 36,523 120,946 157,46 Total Current Non-Operating Assets 36,523 120,946 157,46 Total Current Assets - - 22,02 Other Assets - - - Total Intragible Assets Net 22,02 - - Other Non-Current Assets - - - Total Intragible Assets - - - - Total One Non-Current Assets - - - - Current Usabilities - - - - - Current Labilities - - <th>As of February 7, 2014</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	As of February 7, 2014							
Unadjusted Adjusted Adjusted Current Assets Current Operating Assets 11 \$ 30,966 \$ 120,946 \$ 151,91 Cash & Equivalents (1) \$ 30,966 \$ 120,946 \$ 151,91 Accounts Receivable - - 3,77 Other Current Assets 1,780 - 1,78 Total Current Operating Assets 36,523 120,946 157,46 Total Current Assets 36,523 120,946 157,46 Total Current Assets - - - Other Assets 36,523 120,946 157,46 Total Current Assets - - - Godwill - 340,370 340,370 Total Intangible Assets - Net - - - - Total Other Non-Current Assets - - - - Total Other Non-Current Assets - - - - - Total Other Non-Current Assets - - - - - -			-				(tho	usands of USD
Unadjusted Adjusted Adjusted Current Assets Current Operating Assets 11 \$ 30,966 \$ 120,946 \$ 151,91 Cash & Equivalents (1) \$ 30,966 \$ 120,946 \$ 151,91 Accounts Receivable - - 3,77 Other Current Assets 1,780 - 1,78 Total Current Operating Assets 36,523 120,946 157,46 Total Current Assets 36,523 120,946 157,46 Total Current Assets - - - Other Assets 36,523 120,946 157,46 Total Current Assets - - - Godwill - 340,370 340,370 Total Intangible Assets - Net - - - - Total Other Non-Current Assets - - - - Total Other Non-Current Assets - - - - - Total Other Non-Current Assets - - - - - -				42/24/2013				
Sesets: Current Operating Assets (1) S 30,966 \$ 120,946 \$ 151,91 Accounts Receivable - - 3,777 - 3,773 3,40,370 3,40,370 3,40,370 3,40,370 3,40,370 3,40,370 3,40,370 3,40,370 3,40,370 </th <th></th> <th></th> <th></th> <th>1 AURIC (1975) 272</th> <th></th> <th>Adjustments</th> <th></th> <th>Adjusted</th>				1 AURIC (1975) 272		Adjustments		Adjusted
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Cash & Equivalents [1] \$ 30,966 \$ 120,946 \$ 151,91 Accounts Receivable 3,777 - 3,777 - 3,777 - 3,777 - 1,780 - 1,780 - 1,777 - 1,780 - 1,777 - 1,780 - 1,777 - 1,780 - 1,777 - 1,780 - 1,778 - 1,776 - 1,776 - 1,776 - 1,776 - 1,776 - 1,776 - 1,776 - 1,776 - 1,776 - 1,776 - 1,776 - 1,776 - 1,776 - 1,776 - 1,776 - 1,777 - 2,202 - 2,202 - 2,202 - 2,202 - 2,202 - 2,202 - 2,202 - 2,202 - 2,202 - 2,202 - 2,202 - 2,202								
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Other Current Assets 1780 - 178 Total Current Operating Assets 36,523 120,946 157,46 Total Current Non-Operating Assets 36,523 120,946 157,46 Total Current Assets 36,523 120,946 157,46 Total Fixed Assets - Net 22,021 - 22,02 Other Assets - 340,370 340,37 Godwill - - - - Other Intangible Assets [2] - 340,370 340,370 Total Intangible Assets - - - - - Total Cong Term Receivables - - - - - - Total Intangible Assets -				3,777				3,77
Total Current Operating Assets 36,523 120,946 157,46 Total Current Nasets 36,523 120,946 157,46 Total Current Assets 36,523 120,946 157,46 Total Current Assets 36,523 120,946 157,46 Other Assets 22,021 22,02 22,02 Other Assets 340,370 340,370 340,370 Total Intangible Assets 1 340,370 340,370 Total Other Non-Current Assets - - - Total Current Devables - - - - Current Liabilities \$ 58,543 \$ 461,316 \$ 519,85 Iabilities [3] 50,017 (45,187) 12,26 Current Liabilities [3] 50,017 (45,187) 12,26 Total Current Devables 57,454<								1,78
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Total Current Assets 36,523 120,946 157,46 Total Fixed Assets - Net 22,021 - 22,02 Other Assets Goodwill - 22,02 Other Intangible Assets [2] - 340,370 340,370 Total Intangible Assets - Net - - - - Total Intangible Assets - Net - - - - Total Intangible Assets - Net - - - - Total Intangible Assets 2 - - - - Total One Current Assets - - - - - Total One Current Assets - - - - - - Iabilities Current Operating Liabilities 5 7,430 \$ 7,430 \$ 7,433 Deferred Revenue 7 - - - - - - - - - - - - - - - - -						neng n		
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Intangible Assets Goodwill Other Intangible Assets [2] Total Intangible Assets Net Total Long Term Receivables Total Long Term Receivables Total Non Current Assets S 58,543 \$ 461,316 \$ 519,85 iabilities Current Liabilities Current Liabilities Current Liabilities Current Liabilities Current Liabilities Current Liabilities Total Current Liabilities Total Liabilities Total Current Liabilities Total Current Liabilities Total Liabilities S 187,365 S (45,187) S 142,17 Total Current Liabilities S 377,68	Total Fixed Assets - Net			22,021		÷		22,021
Goodwil - - - - - - - - - - - - - - - - - - - 340,370	Other Assets							
Goodwil - - - - - - - - - - - - - - - - - - - 340,370	Intangible Assets							
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Total Intangible Assets - Net340,370340,370Total Long Term ReceivablesTotal Non Current AssetsTotal Non Current AssetsTotal Assets\$ 58,543\$ 461,316\$ 519,85iabilities\$ 58,543\$ 461,316\$ 519,85Current Liabilities\$ 7,430\$ 7,430Current Deparating Liabilities74,83Current Operating Liabilities[3]50,017Cotal Current Dept DigationsTotal Current Liabilities57,454(45,187)Total Current Liabilities57,454(45,187)Total Current Debt ObligationsTotal Current Liabilities57,454(45,187)Total Current Liabilities57,454(45,187)Total Current LiabilitiesTotal Current LiabilitiesTotal Current LiabilitiesTotal Current LiabilitiesTotal Current LiabilitiesTotal Current LiabilitiesDeferred Revenue, LT3,801-Deferred Revenue, LT3,801-Customer Deposits1,866-Other Non-current Liabilities1,866Total Other Non Current Liabilities1,29,911Total Current Liabilities1,29,911-Total Current Liabilities1,29,911-Total Liabilities1,29,911-Total Liabilities\$ 187,365\$ (45,187) <td>Other Intangible Assets</td> <td>[2]</td> <td></td> <td></td> <td></td> <td>340,370</td> <td></td> <td>340,37</td>	Other Intangible Assets	[2]				340,370		340,37
Total Long Term Receivables Total Other Non-Current Assets - </td <td></td> <td></td> <td>-</td> <td></td> <td>-</td> <td>340,370</td> <td></td> <td>340,37</td>			-		-	340,370		340,37
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S 58,543 \$461,316 \$519,85 Liabilities and Equity: Iabilities S	Total Other Non-Current Assets				-			
iabilities and Equity: iabilities Current Liabilities Current Operating Liabilities Accounts Payable \$ 7,430 Deferred Revenue 7 Other Current Liabilities [3] Total Current Operating Liabilities [3] Total Current Debt Obligations - - - Total Current Liabilities 57,454 Total Current Liabilities - Deferred Revenue, LT 3,801 Deferred Revenue, LT 3,801 Other Non-Current Liabilities - Deferred Revenue - Total Non Current Liabilities 129,911 S	Total Non Current Assets				_	340,370		340,370
iabilities Current Liabilities Accounts Payable \$ 7,430 \$ 7,43 Deferred Revenue 7 Other Current Liabilities [3] 50,017 (45,187) 4,83 Total Current Operating Liabilities [3] 57,454 (45,187) 12,26 Total Current Debt Obligations	otal Assets		\$	58,543	\$	461,316	\$	519,85
Current LiabilitiesCurrent Operating LiabilitiesAccounts Payable\$Accounts Payable\$7Other Current Liabilities[3]50,017(45,187)4,83Total Current Operating Liabilities57,4547(45,187)12,26Total Current Debt ObligationsTotal Current Liabilities57,454(45,187)12,26Non Current LiabilitiesTotal Long Term Debt42,386Other Non Current LiabilitiesDeferred Revenue, LT3,801Customer Deposits80,000Other Non-current Liabilities1,857Total Other Non Current Liabilities1,866-1,866-Total Other Non Current Liabilities129,911-129,911-129,911-129,911-129,911-129,911-129,911-129,911-129,911-129,911-129,911-129,911-129,911-129,911-129,911-129,911-129,911-129,911-129,915120121121	iabilities and Equity:							
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Accounts Payable \$ 7,430 \$ 7,430 Deferred Revenue 7	Current Operating Liabilities							
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Total Current Operating Liabilities57,454(45,187)12,26Total Current Debt Obligations				7				
Total Current Operating Liabilities57,454(45,187)12,26Total Current Debt ObligationsTotal Current Liabilities57,454(45,187)12,26Non Current Liabilities57,454(45,187)12,26Non Current Liabilities42,386-42,38Other Non Current Liabilities1,857-1,857Deferred Rent1,857-1,857Customer Deposits80,000-80,000Other Non-current Liabilities1,866-1,866Total Other Non Current Liabilities1,22,66-1,22,66Total Other Non Current Liabilities1,266-1,26,66Total Other Non Current Liabilities1,26,66-1,26,66Total Non Current Liabilities1,26,66-1,26,66Total Non Current Liabilities1,29,911-129,91Total Liabilities129,911-129,91Total Liabilities\$187,365\$(45,187)Total Liabilities\$187,365\$377,68Total Equity Value - Controlling, Marketable Basis\$377,68	Other Current Liabilities	[3]		50,017		(45,187)		4,830
Total Current Liabilities57,454(45,187)12,26Non Current Liabilities42,386-42,38Other Non Current Liabilities1,857-1,85Deferred Rent1,857-1,85Deferred Revenue, LT3,801-3,80Customer Deposits80,000-80,000Other Non-current liabilities1,866-1,85Total Other Non Current Liabilities129,911-129,91Total Non Current Liabilities129,911-129,91Cotal Liabilities\$187,365\$(45,187)Sotal Equity Value - Controlling, Marketable Basis\$377,68	Total Current Operating Liabilities		-	57,454	-	(45,187)		12,26
Non Current Liabilities42,386-42,38Other Non Current Liabilities1,857-1,857Deferred Rent1,857-1,857Customer Deposits80,000-80,000Other Non-current liabilities1,866-1,866Total Other Non Current Liabilities1,866-1,866Total Other Non Current Liabilities129,911-129,911Total Non Current Liabilities129,911-129,911Total Liabilities\$187,365\$(45,187)Total Equity Value - Controlling, Marketable Basis\$377,68	Total Current Debt Obligations				-		-	A
Total Long Term Debt42,386-42,38Other Non Current Liabilities1,857-1,857Deferred Rent1,857-1,857Deferred Revenue, LT3,801-3,80Customer Deposits80,000-80,000Other Non-current liabilities1,866-1,866Total Other Non Current Liabilities87,525-87,525Total Non Current Liabilities129,911-129,911Total Liabilities\$187,365\$(45,187)Total Equity Value - Controlling, Marketable Basis\$377,68	Total Current Liabilities			57,454		(45,187)		12,267
Other Non Current Liabilities 1,857 - 1,857 Deferred Rent 1,857 - 3,801 Deferred Revenue, LT 3,801 - 3,80 Customer Deposits 80,000 - 80,000 Other Non-current liabilities 1,866 - 1,866 Total Other Non Current Liabilities 87,525 - 87,525 Total Non Current Liabilities 129,911 - 129,91 Total Liabilities \$ 187,365 \$ (45,187) \$ 142,17 Total Equity Value - Controlling, Marketable Basis \$ 377,68 \$ 377,68								10.000
Deferred Rent 1,857 - 1,857 Deferred Revenue, LT 3,801 - 3,80 Customer Deposits 80,000 - 80,000 Other Non-current liabilities 1,866 - 1,866 Total Other Non Current Liabilities 87,525 - 87,525 Total Non Current Liabilities 129,911 - 129,91 'otal Liabilities \$ 187,365 \$ (45,187) Total Equity Value - Controlling, Marketable Basis \$ 377,68				42,386		-		42,386
Deferred Revenue, LT 3,801 - 3,80 Customer Deposits 80,000 - 80,000 Other Non-current liabilities 1,866 - 1,866 Total Other Non Current Liabilities 87,525 - 87,525 Total Non Current Liabilities 129,911 - 129,91 Total Liabilities \$ 187,365 \$ (45,187) Total Equity Value - Controlling, Marketable Basis \$ 377,68				1 857				1.85
Customer Deposits 80,000 - 80,000 Other Non-current liabilities 1,866 - 1,866 Total Other Non Current Liabilities 87,525 - 87,525 Total Non Current Liabilities 129,911 - 129,91 Total Liabilities \$ 187,365 \$ (45,187) Total Equity Value - Controlling, Marketable Basis \$ 377,68								
Other Non-current liabilities 1,866 - 1,86 Total Other Non Current Liabilities 87,525 - 87,52 Total Non Current Liabilities 129,911 - 129,91 otal Liabilities \$ 187,365 \$ (45,187) otal Equity Value - Controlling, Marketable Basis \$ 377,68								
Total Other Non Current Liabilities 87,525 - 87,52 Total Non Current Liabilities 129,911 - 129,91 otal Liabilities \$ 187,365 \$ (45,187) \$ 142,17 otal Equity Value - Controlling, Marketable Basis \$ 377,68								
Total Non Current Liabilities 129,911 129,911 otal Liabilities \$ 187,365 \$ (45,187) \$ 142,17 otal Equity Value - Controlling, Marketable Basis \$ 377,68					-		-	
otal Equity Value - Controlling, Marketable Basis \$ 377,68			_		_		-	129,91
	otal Liabilities		\$	187,365	\$	(45,187)	\$	142,178
	otal Equity Value - Controlling, Marketabl	e Basis					\$	377,682
								378,00

Notes:

[1] Add Series C-1 and C-2 Preferred Stock proceeds through 2/7/14 that are not on 12/31/13 balance sheet.

 [2] Add value of technology and branding assets under cost to recreate method (Exhibit E.2)
 [3] Adjust out "miscellaneous receipts" liability that represents proceeds received from 2013 capital raises, for which stock had not been issued yet.



US V. Elizabeth Holmes Valuation of Theranos, Inc. As of February 7, 2014

Exhibit E.2 Cost to Racreate Method - Technology and Branding Assets (USD)

	_		Calendar Year 2009 Allocation to	9	_	_		Calendar Year 201 Allocation to	0		_		Calendar Year 2011 Allocation to		-
	. 1	otal Cost [1]	Technology and Brand [2]	All	ocated Cost	Te	tal Cost [1]	Technology and Brand [2]	All	ocated Cost	т	otal Cost [1]	Technology and Brand [2]	AI	located Cost
Functional Category								2 · · · · · · · · ·			1				
Salanes, Wages & SBC	3	6,717.962	100%	5	6,717,962	5	7.485.029	100%	5	7,485,029	5	10.069.033	100%	5	10.069.033
Payroll Taxes & Processing		483,606	100%		463,606		568,593	100%		568,593		784,542	100%		784,642
Health Insurance		417,083	100%		417,083		493,526	100%		493,526		767,508	100%		767.508
Other benefits		114,239	100%		114,239		180,253	100%		180,253		773,318	100%		773.318
Sales Commissions		5,000	0%	-		_	-	0%			_	14	0%	_	1.1
Subtotal Employees	5	7,737,890		5	7,712,890	\$	8,727,402		5	8,727,402	3	12,394,501		\$	12,394,501
Contractor Services		488,192	100%		488,192		518,786	100%		518,786		1,637,549	100%		1,637.549
Subtotal for All Labor Costs	3	8,226,082		5	8,221,082	\$	9,246,188		3	9,246,185	5	14,032,050		3	14,032,050
Facility Costs	2	2 145,779	99.9%		2 144 392	5	2,064,230	100.0%		2.064 230	5	2,724,300	100.0%	5	2 724 200
R&D Materials, Parts, Biological Compounds		535.138	100%		935,138		3,786,184	100%		3,766,184	10	5.955,745	100%		5,955,745
Conf. Website, Market Studies, Trademark Costs		56,925	10056		58,925		75.422	100%		75.422		13.452	100%		13.452
Legal Tax Accounting Services - General		120 697	50%		60.349		284,605	50%		142 303		339,185	50%		169.583
Legal Regulatory and Patents Costs		313,058	100%		313.058		492,136	100%		492,196		1.307.265	100%		1,307,265
Legal Gosts for Legation			0%					0%				665,695	0%		
Expensed Equip., Software, and Maintenance		148,010	100%		148.010		226,101	100%		226,101		620,302	100%		620,302
Dues, Subscriptions, Licenses and Supplies		85,853	100%		85,853		233,858	100%		233,858		447,386	100%		447,386
Recruiting Costs		192,343	99.9%		192,219		212,706	100.0%		212,706		300,466	100.0%		300,466
Travel Expenses		226,711	50%		113,355		154,949	50%		77.474		396,822	50%		198,411
Interest (Income), Expense & Bank Charpes		109.143	0%				70.077	0%				(132,632)	0%		
Supporting G&A Expenses		274,158	99.9%		273,981		361.955	100 0%		361,955		455,201	100.0%		455,201
Relocation Expenses		27 220	0%				5.272	0%		1		66,194	0%		
Supplies for Manufacturing / Operations		754,146	100%		754,146		432,293	100%		432,293		77.829	100%		77,829
Inventory			100%				(13,583)	100%				(5,337)	100%		(5,337)
Capital Expenditures		180 627	100%		180,627		1,635,110	100%		1 635,110		3.042.848	100%		3,042,848
Other Costs		17.441	0%		and the second s		17,845	0%				15,927	0%		
Subtotal for indirect Costs	\$	5,589,248		\$	5,260,052	5	10,040,161		5	9,739,772	5	16,290,629		\$	15,307,450
			Yrs	_				Yrs	_				Yrs	-	
Inflation Adjusted Total Expenses (4)		23%	4.61	5	14,983,679		23%	3.61	5	20,623,946		2.3%	2.61	\$	31,148,641

	_		Calendar Year 2013 Allocation to			_		Calendar Year 2013 Allocation to	<u> </u>		_		Calendar Year 2014 Allocation to		
		otal Cost (1)	Technology and Brand [2]		liocated Cost		otal Cost [1]	Technology and Brand [2]		located Cost		otal Cost (1)	Technology and Brand [2]		ocated Cost
Functional Category	-	our cost [1]	Biand [2]	A	Incased Cost	-	our cost [1]	Biand [2]	A	iocated Cost	-	ourcostill	manu [2]	A	ocated cost
Salaries, Wages & SBC	\$	20,238,277	100%	5	20,238,277	5	29,829,686	100%	\$	29,829,686	5	46,369,000	8%	5	3.864.083
Payroll Taxes & Processing		1.501.634	100%		1,561,634		2,246,295	100%		2 246,298		3,450,000	6%		287.500
Health Insurance		1,429,986	100%		1,429,985		2,151,519	100%		2,161,519		3,325	5%		277
Other benefits		2,374,572	100%		2,374,572		3,255,991	100%		3,255,991		8,112,675	6%		676,056
Sales Commissions			0%	_			78	0%			_	312,000	0%		
Subtotal Employees	5	25,604,469		ş	25,604,469	5	37,493,572		\$	37,493,494	\$	58,247,000		\$	4,827,917
Contractor Services		3,073,543	100%		3.073,543		5,372,096	100%		5,372,096		7,885,000	8%		657,083
Subtotal for All Labor Costs	\$	28,678,011		\$	28,678,011	\$	42,865,668		\$	42,865,590	\$	66,132,000		5	5,485,000
Facility Costs	5	7,375,665	100.0%	s	7 375 665	5	7,140 632	100.0%	5	7,140,617	5	16,776,000	8%		1,390,512
R&D Materials, Parts, Biological Compounds		11,136,524	100%		11,136,524		10,059,736	100%		10,069,736		10,638,000	8%		886,500
Conf., Website, Market Studies, Trademark Costs		1,274,910	100%		1,274,910		7,684,778	100%		7.684,778		3,067,000	8%		257,250
Legal Tax, Accounting Services - General		1,400,908	50%		700,454		709 756	50%		354,878		1.051.000	4%		43,792
Legal Regulatory and Patents Costs		1.750,963	100%		1,750,963		1.913.373	100%		1.013,373		2,199,000	5%		183,250
Legal Costs for Lingation		1.829,174	0%				6,197,019	0%				3,899,000	0%		
Expensed Equip , Software, and Maintenance		1,084,748	100%		1,084,748		1,657,745	100%		1,657,745		1,792,000	8%		149,333
Dues, Subscriptions, Licenses and Supples		1.211.873	100%		1,211,873		1.522,924	100%		1.522.924		3,583,000	8%		298,583
Recruiting Costs		796,875	100,0%		796,875		552,947	100.0%		552,946		1,147,000	8%		95,071
Travel Expenses		267.524	50%		133,762		787.042	50%		393,521		1.170.000	4%		48,750
Interest (Income). Expense & Bank Charges		143.830	D%		~		382,053	0%				(27.000)	0%		
Supporting G&A Expension		934,674	100.0%		934,674		1,185,138	100.0%		1,185,135		2,335,000	8%		193,541
Relocation Expenses		65 756	0%		1		24,763	0%		1000		43,000	0%		× 1
Supplies for Manufacturing / Operations		855,721	100%		B55,721		1,574,094	100%		1,574,094		1,952,000	0.%		
Inventory		6,865,924	100%		6,865,924		1.742,694	100%		1,742,894		1.145.000	8%		95,417
Capital Expenditures		17,572,491	100%		17,572,491		6,884,769	100%		8,884,769		38,594,066	B%		3,216,172
Other Costs	_	90,432	0%	-	-	_	(44,941)	0%	1		-	30,000	0%	-	
Subtotal for Indirect Costs	\$	54,657,993		5	51,694,585	5	51,984,722		5	44,677,410	\$	89,414,066		\$	6,858,171
			Vrs	_				Yrs	_				Yrs	-	
Inflation Adjusted Total Expenses [3]		2.3%	1.61	5	83,390,064		2.3%	0.61	5	\$8,771,777		23%	0	5	12,343,171

23,743,086 20,247,539 15,187,171 251,261,278	s	ñ	2004-2006 Expenses, Inflation Adjusted [4] 2007 Expenses, Inflation Adjusted [5] 2008 Expenses, Inflation Adjusted [5] 2009-2014 Expenses, Inflation Adjusted	
310,439,074	5		Total Direct and Indirect Development Costs	
(11,871,543)	_	4%	Obsolescence Adjustment (6)	
298,567,531	5		Sublotal Cost	
41,799,454	_	14%	Add Developer Profit Margin [7]	
340,366,985	5	13	Total Pretax Development Cost	
340,370,000	5	10	Total Pretax Development Cost (Rounded)	

ded) nt Cost (Rou

Per company prepared trial balances. Allocations based on netwance of costs to developing Therainos technology and tranding assets. 2014 is adjusted for partial period to valuation date Adjust allocated is upsness for average annual inflation of 2,3% over historical period. 2004 - 2006 systemses based on retained earnings deficit at 1231107 isos operating loss reported for calendar year 2007. Expenses are adjusted for inflation of 2,3% from midpoint of period to valuation date. 2007 - 2006 systemses based on motions francul attainments. Exclusions francing costs and intervent income. Expenses are adjusted for inflation of 2,3% from midpoint of each period to valuation date. 2007 - 2006 systemses based on motions francul attainments. Exclusions francing costs and intervent income. Expenses are adjusted for inflation of 2,3% from midpoint of each period to valuation date. 2004 for eaternated 50% of historical development efforts between 2004-2006 that represent obviolete technology on valuation date. Developer margin based on median EBIT margin of peer group of firms in Exclusion 2004.

Notes (1) (2) (3) (4) (5) (6) (7)



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 84 of 156

US v. Elizabeth Holmes	Exhibit F.1
Valuation of Theranos, Inc.	Discounted Cash Flow Key Assumptions
As of December 31, 2014	(thousands of USD)

		For t	ne Twelve Month Peri	od Ending December	31.
	Basis	2015	2016	2017	2018
Total Revenue	Annual Growth Rate	97703.4%	97.0%	44.8%	55.6%
Terminal Value	Exit Multiple, Ex. G.1				4.0%
Total Cost of Revenue	% of Revenue	35.0%	32.0%	32.0%	30.0%
Total Operating Expenses	% of Revenue	85.5%	44.7%	33.7%	24.7%
Depreciation & Amortization	Exhibit F.3	9.3%	6.9%	7.0%	6.0%
Interest Expense	N/A	N/A	N/A	N/A	N/A
Income Taxes	% of Pre-Tax Net Income	40.0%	40.0%	40.0%	40.0%
Adjusted Operating Working Capital Adjusted Operating Working Capital Yr/yr Working Capital (Increase)/Reduction	Exhibit F.2	4.0% 4,593 299,343	10.5% 23,523 (18,930)	14.8% 47,806 (24,283)	18.6% 93,778 (45,972)
Capital Expenditures	% of Revenue	29.2%	20.6%	20.3%	11.8%



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 85 of 156

and the second se	US v. Elizabeth Holmes
Exhibit F.	
Adjusted Working Capital Analysis	Valuation of Theranos, Inc.
(thousands of USD	As of December 31, 2014

Working Capital		FYE 12-31-09		FYE 2-31-10		FYE 2-31-11		FYE 2-31-12	-	FYE 2-31-13		FYE 12-31-14	-	For the 2015	Twe	Ive Month F 2016	Period	Ending D	ecem	ber 31, 2018
working Capital	-	12-31-03	-	2-31-10		2-31-11	-1	2-31-12	_1	2-31-13	-	12-31-14	-	2015	-	2016	-	2017	_	2018
Total Revenue	(1) 3	\$ 2,794	\$	1,401	\$	518	\$		\$		\$	116	\$	113,452	5	223,452	\$	323,452	\$	503,452
Total COS												1		39,708		71,505		103,505		151,036
Total Operating Expenses		13,597		16,801		27,173		64,015		85,605		122,756		97,025		99,961		108,977		124,401
Operating Assets																				
Cash & Equivalents	[2] :	\$ 3,690	\$	36,718	\$	88,056	\$	51,785	\$	30,966	\$	465,933	5	47.848	\$	49,296	\$	53,742	\$	61,348
Accounts Receivable		29		55				1.1.1		1.										
Inventory		581				2		1,733		3,777		2,383		3,404		6,704		9,704		15,104
Other Current Assets		195		827		665		1,882		1.780		12,788		4,838		5,080		5,334		5,601
Note Receivable					-				_			27,045	-	57,539	_	50,055		42,303		58,453
Total Operating Assets	_	4,495	_	37,600	_	88,721	_	55,401	-	36.523	-	508,149	_	113,629		111,135		111,083	-	140,506
Operating Liabilities																				
Accounts Payable		560		440		1,238		7,669		7,430		16,633		13,879		16,480		16,174		22,774
Deferred Revenue		1,663		257		7		7		7						2				
Other Current Liabilities		950		1,298		2,845		7,714		4,830		9,984		7.073		8,265		9,453		11,521
Deferred Rent		723		759		767		1,572		1,857				-						Sec.
Deferred Revenue, LT		2,146		3,808		3,801		3,801		3,801						1.00		1.1		1.2
Customer Deposits				- A.		73,500		69,500		80,000		143,846		70,356		46,904		23,452		- G
Other Non-current liabilities		807		1,847		5,959		3,425		1,866		33,750		17,728	_	15,963		14,198		12,433
Total Operating Liabilities	- 2	6,849	_	8,409	_	88,117	_	93,687	-	99,791	Ξ	204,213	1	109,036		87,612	_	63,277	_	46,728
Net Operating Working Capital		\$ (2,354)	\$	29,191	\$	604	\$	(38,287)	5	(63,268)	5	303,936	5	4,593	5	23,523	5	47,806	s	93,778
Net Operating Working Capital as % of Revenue		-84.3%	1	2083.1%	-	116.6%		0.0%	_	0.0%		262013.8%	_	4.0%	_	10.5%	-	14.8%	_	18.6%
Yr/yr Working Capital (Increase)/Reduction		-		(31,545)		28,587		38,891		24,981		(367,204)		299,343		(18,930)		(24,283)		(45,972
BizMiner Working Capital as a % of Revenue														22.8%						
RMA Working Capital as a % of Revenue														36.1%						
Comparable Group Working Capital as a % of Revenue														58.0%						
Days' Operating Expenses in Cash		99		798		1,183		295		132		1,385		180		180		180		180
Days' Sales Outstanding		4		14		1.1		20						1000		1.200				
Days' Inventory		1.1						-						31		34		34		37
Other Current Assets as a % of Revenue		7.0%		59.0%		128.4%		0.0%		0.0%		11024.1%		4.3%		2.3%		1.6%		1.1%
Note Receivable as a % of Revenue		0.0%		0.0%		0.0%		0.0%		0.0%		23314.7%		50.7%		22.4%		13.1%		11.6%
Days' Payables						arr 20				-		+		128		84		57		55
Deposits & Deferred Revenue as a % of Revenue		136.3%		290 1%		14917.2%		0.0%		0.0%		124005.2%		62.0%		21.0%		7.3%		0.0%
Other Current Liabilites as a % of Opex		7.0%		7.7%		10.5%		12,1%		5.6%		8,1%		7.3%		8.3%		8.7%		9.3%
Deferred Rent as a % of Opex		5 3%		4.5%		2,8%		2.5%		2.2%		0.0%		0.0%		0.0%		0.0%		0.0%
Other Non-current liabilities as a % of Opex		5.9%		11.0%		21.9%		5.4%		2.2%		27.5%		18.3%		16.0%		13.0%		10.0%

Notes:

Historical balances are per Adjusted Income Statement. Refer to Exhibit B.5. Operating Expenses exclude Depreciation & Amortization.
 Estimated operating cash levels equal to 6 months of operating expenses



US v. Elizabeth Holmes	Exhibit F.3
Valuation of Theranos, Inc.	Depreciation & Capital Expenditure Analysis
As of December 31, 2014	(thousands of USD)

Constant Designations		-	2015	Twe	Ive Month Per	100 6		iber		
Forecast Depreciation		-	2015	-	2016		2017	-	2018	
Total Revenue		\$	113,452	\$	223,452	\$	323,452	\$	503,452	
Beginning Balance - Total Fixed Assets Capital Expenditures		_	53,366 33,134	-	75,963 45,970	2	106,437 65,569		149,519 59,240 208,759	
Fixed Assets Capital Expenditures as a % of Revenue			86,500 29.21%		121,933 20.57%		172,006 20.27%		11.77%	
Depreciation Assumptions as to Depreciable Lives: Beg. Dep. Existing Fixed Assets - avg life Capital Additions - avg life	6.3 8.0									
Beginning Balance 2015 Additions 2016 Additions 2017 Additions 2018 Additions		\$	8,460 2,077	\$	8,460 4,154 2,881	\$	8,460 4,154 5,763 4,110	\$	8,460 4,154 5,763 8,220 3,713	
Total Depreciation As a % of Revenue		S	10,537 9.3%	\$	15,496 6.9%	\$	22,487 7.0%	\$	30,310 6,0%	
Net Fixed Assets As a % of Revenue		\$	75,963 67.0%	\$	106,437 47.6%	\$	149,519 46.2%	\$	178,448 35.4%	ć
Historical Capital Expenditure Analysis			FYE 12-31-10		FYE 12-31-11		FYE 12-31-12		FYE 12-31-13	FYE 12-31-14
Net FA Chg from PY Depreciation (Gain)/Loss			2,630 N/A 771		4,648 2,018 1,025		19,557 14,909 2,654 9		22,021 2,463 5,573 849	53,366 31,345 7,247 1
Capital Expenditures		-	N/A	-	3,043	-	17,572	-	8,885	38,594
Fixed Assets Fixed Assets as a % of Revenue	Average 20,444 5021.89		2,630 187.7%		4,648 896.9%		19,557 <i>N/A</i>		22,021 N/A	53,366 46005.2%
Capital Expenditures Capital Expenditures as a % of Revenue	17,024 4181,69		N/A N/A		3,043 587.1%		17,572 N/A		8,885 N/A	38,594 33270.7%

Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 87 of 156

Exhibit F.4 Discount Rate - Venture Capital Rates of Return US v. Elizabeth Holmes Valuation of Theranos, Inc. As of December 31, 2014 Market Interest Bearing Trading Volume 1-Year Growth Equity as a % LTM Revenue 105,454 of Total Capital 100 0% 100 0% Company Name OraSure Technologies, Inc. Ticker Symbol OSUR Rate Capitalization 568,416 Debt [7] 641 7.6% 5 Tonty Riotech nic TRIE 392 493 135 104,872 15.0% 98 2% 98 2% 99 8% 99 8% 95 7% 82 5% Enza Blochem, Inc. ENZ 218 928 4.038 188 4.8% QuidelOithe Corporation Exact Sciences Corporation OPKO Health, Inc ODEL EXAS OPK PKJ 995,150 2,430,718 4,397,104 143,084 3,760 147,343 98,037 184,158 1,798 91,125 3 9% 56 6% -5 6% -4 1% 302 1,974 PerkinElmer, Inc. 4,939,852 1.045.468 1.017 2,069,880 Quest Diagnostics Incorporated DGX 9 592 455 3 770 000 1 637 7 435 000 4.0% 72.0% 1,037 1,264 749 1,158 3 5% -1 7% 31 0% 3 3% Laboratory Corporation of America Holdings Myriad Genetics, Inc IH 9 117 550 3 029 800 5 011 800 76 1% Myriad Gene Illumina, Inc Qiagen N.V MYGN ILMN QGEN 2,485,880 26,210,360 5,425,828 724,873 1,861,358 1,344,777 100.0% 95.3% 82.2% 1,291,036 705 Alere Inc. IQT2622336 3,175,128 3 726 094 2,577 001 -1.2% 46.0% Luminex Corporation IQT2627430 803 551 243 226.983 6 495 100.0% Abaxis, Inc. CombiMatrix Corporation Affymetrix Inc. Genomic Health, Inc IQT2586525 IQT36309071 IQT2587418 IQT24111615 1280,721 14,271 725,274 1,014,152 100.0% 97.2% 85.0% 805 202 162,777 1.7% 8,042 349,019 275,706 1/% 26.3% 5.6% 5.4% 405 127,950 703 100.0% 278.213 Cepheid (QT2599314 3,815,841 620 470,141 17.2% 93 2% Nanosphere, Inc. IQT38720096 45.675 9,716 117 14,290 82.5% GenMark Diagnostics Inc. Bio-Reference Laboratories Inc. 11.6% 16.3% IOT106626443 568.004 185 30 594 100.0% IQT2594421 890,901 55,429 212 832,282 94.1% 3,597,694 673,052 32,573 689 556 1,136,335 5.2% 5.1% Average Median 90.3% 96.0% Selected 97.0% Industry Capital Structure Equity Interest Bearing Debt 95.0% 5.0% Tax Rate Cost of Equity [1] Table 1: Venture Capital Average Actual Rates of Return for the Period ended September 30, 2008
Stage of Development S-year Return 10-year Return 20-year Return 2008 22.1% 14.6% 2002 2002 Seed/Early Stage 20.4% 25.5% 7.5% 20,9% Balanced Later Stage 20.9% 6 1% 10.6% 7.3% 15.3% 14.7% All Ventures 13.4% 16.6% 17.2% 28.39 5.7% 26.3% Table 2: Target Rates of Return (2-5) Sahiman. Stevenson, and Bhide 50% - 100% Everett Mediar Scherlis and Everett 30% - 40% 23% - 38% Stage of Development Plummer 50% - 70% Sahiman 50% - 70% 33 D% Start-up 40% - 60% 30% - 50% 20% - 35% First stage or "early development" 40% - 60% 35% - 50% 40% - 60% 28.0% Second stage of "expansion Bridge/IPO 30% - 40% 19% - 92% 25 0% 25% - 35% 20%-30% 8% 25.0%

Plummer / Ded

(6)

[6]

(7)

3: Target Rates of Return

Ruhnka /			unt Rates Used
Young	Wetzel	High	Low
73.0%	50.0%	75.4%	49.2%
54,8%	50.0%	59 6%	40.6%
42.2%	37.5%	49.3%	34.7%
35.0%	30.0%	45.7%	31.2%
35.0%	22.5%	40.8%	28 1%
	73,0% 73,0% 54,8% 42,2% 35,0%	Young Wetzel 73.0% 50.0% 54.8% 50.0% 42.2% 37.5% 35.0% 30.0%	Ruhnka / Young Wetzel Wetzel Range of Disco 73.0% 50.0% 75.4% 54.8% 50.0% 59.6% 42.2% 37.5% 49.3% 35.0% 30.0% 45.7%

Table 4: Theranos Investor Forecasts Implied Internal Rates of Return (Feb 2014 - Feb 2015)

Investor Group	IRR
PFM Forecast	75.5%
PFM Model	35.5%
Mosley and RDV Forecast	54 0%
Murdoch Forecast	82.0%

	Selected Venture Capital Cost of Equity		45.0%
Weighted Average Cost of Capital Equity as a % of total capital Cost of Equity (above) Weighted Cost of Equity	_	95.0% 45.0%	42.8%
Debt as a % of lotal capital Cost of Debt.[4] After Tax Cost of Debt (tax rate above)	25.00%	5 0% 15 0%	
Weighted After Tax Cost of Debt	Weighted Average Cost of Capital		0,8% 43,5%
	Weighted Average Cost of Capital (rounde	d)	44.0%

Notes:

Notes:

 [1] Source: Thomson Financial. The average annual return is based upon Thomson Financials' Private Equity Performance Index (PEPI). The PEPI is based on the latest quarterly statistics from Thomson Financials' Private Equity Performance Database analyzing the cashflows and returns for over 1400 US venture capital and private equity partnerships.
 [2] Plummer, James L., QED Report on Venture Capital Financial Analysis.
 [3] Scherlis, Daniel R. and William A. Sahiman, 'A Method for Valuing Hon-Risk, Long Term, Investments: The Venture Gapital Method.' Harvard Business School Teaching Note 9-288-006, Boston: Harvard Business School Publishing, 1989.
 [4] William A. Sahiman, Howard H. Stevenson, Amar V. Binde, et al., "Financing Enricemental Ventures.'' Business Fundamental Series (Boston: Harvard Business School Publishing, 1998).
 Com D. Event "2005 Boston Harvard Business School Publishing, 1999).

Crag R Everett, "2021 Private Capital Markets Report" (Malibu - Peperdine Linversity Graziadio School of Business and Management. 2021), Table
 1, p. 5. Note that this publication also includes rates of return for many other types of private capital investments, as well as summaries of other
 information captured in Pepperdine's annual industry survey.
 (6) Dorsey, "Frey", "A profile/on Model for Venture Capital Performance Measurement and Investment Selection," Polaris Group, Inc. January 2000
 (7) Refer to the report for discussion of the selected Venture Capital Rate of Return

Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 88 of 156

US v. Elizabeth Holmes	Exhibit F.5
Valuation of Theranos, Inc.	Forecast Free Cash Flow to Invested Capital
As of December 31, 2014	(thousands of USD)

	12		eriod	Ending Dec				
		2015		2016	_	2017	-	2018
Total Revenue Total Cost of Revenue	\$	113,452 39,708	\$	223,452 71,505	\$	323,452 103,505	\$	503,452 151,036
Gross Margin GM %		73,744 65.0%		151,947 68.0%		219,947 68.0%	-	352,416 70.0%
Total Operating Expenses Operating Expense %		97,025 85.5%	Ľ	99,961 44.7%	ž.	108,977 33.7%		124,401 24.7%
EBITDA %		(23,281) -20.5%		51,986 23.3%	-	110,970 34.3%		228,015 45.3%
Less: Partial Period Adjustment		Q_(1.2		Qiri		
Adjusted EBITDA		(23,281)			-		-	
Depreciation & Amortization		10,537	_	15,496		22,487		30,310
EBIT %		(33,818) -29.8%		36,490 16.3%		88,483 27.4%		197,705 39.3%
Interest Expense					_		_	
Earnings Before Taxes Income Taxes		(33,818)	<u>_</u>	36,490		88,483		197,705 32,350
Forecast After-Tax Income NPAT %	\$	(33,818) -29.8%	\$	36,490 16.3%	\$	88,483 27.4%	\$	165,354 32.8%
Cash Flow								
Add: Depreciation & Amortization After-Tax Gross Cash Flow		10,537 (23,281)		15,496 51,986		22,487 110,970	-	30,310 195,665
Decrease / (Increase) in Working Capital Less: Capital Expenditures		299,343 (33,134)		(18,930) (45,970)	1	(24,283) (65,569)		(45,972) (59,240)
Free Cash Flow	\$	242,928	\$	(12,914)	\$	21,118	\$	90,453



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 89 of 156

US v. Elizabeth Holmes	Exhibit F.6
Valuation of Theranos, Inc.	Discounted Cash Flow Method Value Summary
As of December 31, 2014	(thousands of USD)

Forecast Period		Base Cash Flow	Period	Discount Rate	PV Factor [2]		scounted h Flow [3]
2015	\$	242,928	0.50	44.0%	0.8334	\$	202,464
2016		(12,914)	1.50	44.0%	0.5788		(7,475)
2017		21,118	2.50	44.0%	0.4020		8,489
2018		90,453	3.50	44.0%	0.2791		25,250
Terminal Value [1]		3,282,000	4.00	44.0%	0.2326		763,471
ndicated Value						\$	992,199
Add: C-2 Financing P							
Deduct: Interest Bear	ing De	bt					(40,805)
Add: Other non-opera	ating as	ssets				-	-
Total Equity Value -	Contr	olling, Marketable	Basis			\$	951,394
Fotal Equity Value -	Contr	olling, Marketable	Basis (rounded)			\$	951,000

Notes:

[1] Refer to Exhibit G.1
 [2] 1 / (1 + Discount Rate) ^ Period.
 [3] Base Cash Flow x PV Factor.



US v. Elizabeth Holmes Valuation of Theranos, Inc. As of December 31, 2014

aluation of Theranos, Inc. s.of December 31, 2014																				Gu		Exhibit G. Company Metho susands of USD
				Debt,					2.0								53.2		Market Va	ue of invested	Capital /	
Name	Ticker	Markel Cap		Pref Shr & Min Int	Cash		MVIC (1)	-	LTM	enue	2015E	LTI	EBIT			-	EBIT	Reve		EBIT		EBIT
			0.05	antir Mit.		-		-	LIM	-	2015E	LI	N	-	2015E	-	LTM	LTM	2015E	LTM	2015E	LTM
OraSure Technologies, Inc.	OSUR	\$ 568		5		867	\$ 470,549	\$	106,464	5	121,370 3	5	(3.995)	\$	9,167	5	(10,302)	4.42x	3.88x	NA	51.33x	NA
Trinity Biotech plc	TRIB	392				102	383,391		104,872		113,729		19,933		28,853		15,438	3 66x	3 37.	19 23x	13.29x	24.83x
Enzo Brochem, Inc.	ENZ	218		4,038		591	206,375		95,637		104,929		(8,660)		NA		(12,544)	2.14x	1.97x	NA	NA	NA
QuidelOrtho Corporation	ODEL	995		143,084	200		937,349		184,156		204,235	1	20,540		37,389		(6,560)	5 09x	4 59x	45.64#	25.07x	NA
Exact Sciences Corporation	EXAS	2,430		3,760	262		2,151,722		1,798		78,142	0	96,829)		(98,942)		(100,539)	NA	27.54×	NA	NA	NA
OPKO Health, Inc.	OPK	4,337		140,940		907	4.381,137		91,125		136,930	0	94,367)		(102,500)		(109,314)	48 D8x	32 00x	NA	NA	NA
PerkinElmer, Inc.	PKI	4,939		1,046,468	174		5,611,499		2,069,880		2,339,190	2	91,561		466,729		181,096	2.81x	2.46x	19.93x	12.45x	32 098
Quest Diagnostics Incorporated	DGX	9,692		3,799,000	192		13,299,465		7,435,000		7,571,861	1,4	33,000		1,507,392		1,119,000	1.79x	1 76x	9.28×	8 82x	11 89x
Laboratory Corporation of America Holdings	LH	9,117		3,047,500	580	000	11,585,050		6,011,600		6,532,839	1,15	52,500		1,282,404		945,500	1.93x	1 77=	10 05x	9 03x	12.25x
Myriad Genetics, Inc.	MYGN	2,485		1.11	165		2,320,765		724,873		879,890	1	91,786		258,525		170 797	3 20x	2.84x	12 10x	8.98x	13.59k
Illumina, Inc.	ILMN	26,210		1,291,036	1,338		26,163,025		1,861,358		2,260,107	6	04,746		767,868		492,172	14.06x	11.58x	43.26x	34.07x	53.16x
Qiagen N.V.	DGEN	5,425	828	1,181,459	576	703	6,030,584		1.344,777		1,424,763	3	95,375		482,240		200,793	4.48x	4.23×	15 25×	12.518	30 03x
Alere Inc	IQ T2622336	3,175	128	4,336,70B	378	720	7,133,116		2,577,001		2,773,165	5	05,722		569,942		169 693	277*	2.57x	14.10x	12.52x	42.04x
Luminex Corporation	IQT2627430	803	551		91	694	711,857		226,953		243,469	a	45.424		52.461		31,219	3.144	2.92x	15.67x	13.57x	22 801
Abaxis, Inc.	IQT2586525	1.250	721	605	109	278	1,172,048		182,777		229,201		43,819		45,639		35,400	6.41+	5118	26.75x	25.68x	32,20x
CombiMatrix Corporation	10736309071	14	271	405	5	240	9,436		6.042		10,972		(6,137)		NA		(6,454)	1.17x	0.86x	NA	NA	NA
Allymetrix Inc.	IQT2587418	726	274	127,950	79	923	774,301		349,019		357,448		42.566		50.812		11.869	2 22x	2.17x	18.19x	15.24x	65 13x
Genomic Health, Inc.	IQT24111615	1,014	152			660	910,492		275 706		311,059		16,757)		(9,280)		(23,627)	3.30x	2 938	NA	NA.	NA
Cepheid	IQT2599314	3,815		278,213	293		3,800,662		470,141		543,680		12.257		22,071		(14,086)	8.08x	6.99x	NA	NA	NA
Nanosphere, Inc.	10 138720096	45		9,718		053	34,338		14,290		23.424		35,822)		(31, 355)		(37,690)	2.40x	1.47=	NA	NA	NA
GenMark Diagnostics, Inc.	IQT106626443	568		0,00		506	497,498		30,594		38.324		36,398)		(46,700)		(39,054)	16.26x	12.98x	NA		
Bio-Reference Laboratories, Inc.	IQT2594421	890		55,429		507	928,823		832,282		978,442		08,589		(40,700) NA		83,425	1.12x	0.95k	8.55x	NA. NA	NA 11.13x
Completion to MVIC Correlation to Price								-	0 63		0 65		0.68		073	-	0.66 0.57					

Upper Quartile Mean Median Lower Quartile		5,09x 6,60x 3,20x 2,22x		4 98x 6 22x 2 93x 2 02x		19 93x 19 65x 15 67x 12 10x		25.07x 18.66x 13.29x 12.45x		34 66x 29 26x 27 43x 13 25x
Selected Multiple Subject Company Base Value	5	6.60x 503,452	\$		5	13,90x 228,015	9	12	5	1
Indicated Value Interest Bearing Debi	1	3,322,783 N/A		Ň/A	2	3,169,409 N/A	2	N/A	1	N/A
Indicated Equity Value Weighling	8	3,322,783 33.3%	\$	0.0%	\$	3,169,409	\$	0.0%	\$	0.0%
Indicated Value Add: Subject Company Cash									\$	3,220,533 61,348
Total Invested Capital Value at 12/	31/18	Exit - Contr	ollin	g, Marke	tab	e Basis			\$	3,281,882
Total Invested Capital Value at 12/	31/18	Exit - Contr	ollin	g, Marke	tabl	e Basis (rou	inde	d)	3	3,282,000
									_	

Notes: Source: S&P Capital IQ. [1] MVIC = Market Value of Invested Capital Presented as net of cash



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 91 of 156

/aluation of Theranos, Inc. As of December 31, 2014					_			_	_	_	_		0	Suideline P	ublic Compa	iny Key Fina (Ihousan	ncial Ratio ds of USD
		Market	Trading	LTM	CAGR Rev	121	Fee	vard Grow				% of Revenu			Current	Debt to	Debt to
Vame	Ticker	Cap	Volume [1]	Revenue	1 Year	3 Year	2015E	2016E	2017E	GM	EBITDA	EBIT	Capex	WC [3]	Ratio	Equity	TNW
DraSure Technologies, Inc.	OSUR	\$ 568,416	641	\$ 105.464	7.5%	9,1%	14.0%	13.4%	44.6%	62.6%	-3.8%	-9.7%	2.8%	190.3%	4,96	0.0%	0.0%
Finity Biotech plc	TRIB	392,493	135	104,872	15.0%	10.4%	8.4%	9.5%	NA	47.1%	19.0%	14,7%	7.9%	44.7%	3.13	0.0%	0.09
Enzo Biochem, Inc.	ENZ	218,928	155	96.637	4.8%	-1.8%	8.6%	7.4%	8.1%	43.6%	-9.0%	-13.0%	0.8%	15.8%	1.62	11.2%	19.19
QuidelOrtho Corporation	QDEL	995,160	302	184,158	3.9%	5.1%	10.9%	8.7%	6.3%	59.2%	11.2%	-3.6%	6.1%	129.3%	7.54	58.4%	116.99
Exact Sciences Corporation	EXAS	2,430,718	1,974	1,798	-56.6%	-24.4%	N/A	189.9%	58.1%	-140.5%	N/A	-5591.7%	N/A	******	16.65	1.3%	1.35
OPKO Health, Inc.	OPK	4,337,104	2,446	91,125	-5.6%	48.2%	50.3%	141.4%	178.9%	3.5%	-103.6%	-120.0%	5.2%	65.6%	1.72	17.6%	-60.3%
PerkinElmer, Inc.	PKI	4,939,852	1,017	2,059,880	-4.1%	2.6%	13.0%	4.5%	4.2%	45.3%	14.1%	8.7%	1.3%	22.8%	1.79	51.2%	-142.95
Quest Diagnostics Incorporated	DGX	9,692,466	1,637	7,435,000	4.0%	0.2%	1.8%	2.3%	4.9%	38.3%	19:3%	15.1%	4.1%	-1.4%	0.94	87.1%	-136.05
aboratory Corporation of America Holdi	LH	9,117,550	1,264	6,011,600	3.5%	2,7%	8.7%	0.0%	0.8%	36.6%	19.2%	15.7%	3.4%	11.9%	1.73	106.8%	-174.49
Myriad Genetics, Inc.	MYGN	2,485,880	749	724,873	-1.7%	17.8%	21.4%	-3.7%	6.5%	82.0%	26.5%	23.6%	3.3%	35.9%	5.35	0.0%	0.0
llumina, Inc.	ILMN	26,210,360	1,158	1,861,358	31.0%	20.8%	21.4%	19.9%	14.9%	71.8%	32.5%	26.4%	5.7%	62.7%	2.62	88.3%	304.9
Diagen N.V.	QGEN	5,425,828	705	1,344,777	3.3%	4.8%	5.9%	7.2%	7.5%	66.3%	29.4%	14.9%	6.4%	53.3%	2.66	44.1%	2720.7
Alere Inc.	IQT2622336	3,175,128	493	2,577,001	-1.2%	2.6%	7.6%	1.8%	NA	47.5%	19.6%	6.6%	3.9%	41.1%	2 37	194.4%	-159.99
uminex Corporation	IQT2627430	803,551	243	226,983	6.4%	7.2%	7.3%	10.0%	10.9%	71.0%	20.0%	13.8%	7.5%	64.6%	5.83	0.0%	0.0
Abaxis, Inc.	IQT2586525	1,280,721	202	182,777	1.7%	6.5%	25.4%	13.0%	NA	56.0%	24.0%	19.9%	3.4%	85.5%	0 12	0.3%	0.3
CombiMatrix Corporation	IQT36309071	14,271	7	8,042	26.3%	20.0%	36.4%	39.6%	29.2%	44.9%	-76.3%	-80,3%	2.5%	82.6%	6.19	5.7%	5.79
Alfymetrix Inc.	QT2587418	726,274	703	349,019	5.6%	9.3%	2,4%	4.0%	2.6%	60.3%	12.2%	3.4%	2,3%	35.6%	2.87	47.0%	1283.95
Senomic Health, Inc.	IQT24111615	1,014,152	151	275,706	5.4%	10.2%	12.8%	13,7%	12.0%	81.1%	-6.1%	-8.6%	3.8%	40.0%	3.87	0.0%	0.0
Cepheid	QT2599314	3,815,841	620	470,141	17.2%	19.2%	15.6%	18.1%	16.3%	51.2%	2.6%	-3.0%	10.0%	81.1%	3.77	78.5%	98.3
Nanosphere, Inc.	IQT38720096	45,675	117	14,290	42.9%	78.0%	63.9%	27.1%	76.1%	-111.1%	N/A	-263.8%	17.7%	136.1%	2.24	36.4%	39.59
GenMark Diagnostics, Inc.	IQT106626443	568,004	185	30,594	11.6%	82.8%	25.3%	58.5%	61.6%	57.1%	-119.0%	-127.7%	18.7%	215.1%	6.35	0.0%	0.0
Bio-Reference Laboratories, Inc.	IQT2594421	890,901	212	832,282	16.3%	16.8%	17.6%	10.1%	NA	46.8%	13.0%	10.0%	1.9%	24.9%	2.43	17.4%	20.64
Upper Quartile		5 4,206,788	950	5 1,216,653	14.1%	18.9%	21.4%	19,5%	40,7%	62.0%	19.7%	14.9%	6.4%	84.8%	5.71	56.6%	34.8
Mean		3,597,694	689	1,136,335	6.2%	15.8%	18.0%	27.1%	30.8%	37.3%	-2.B%	-274.9%	5.7%	758.4%	4.22	38,4%	179,0
Median		1,147,437	556	251,345	5.1%	9.2%	13.0%	10.0%	11.5%	49.4%	13.6%	5.0%	3,9%	58.0%	3.00	17.5%	0.1
Lower Quartile		607,881	192	98,696	2.1%	3.2%	8.4%	52%	6.3%	43.9%	-4.3%	-12.2%	2.8%	35,7%	2,27	0,1%	0,0
Theranos, Inc. (at 12/31/18)		NA	NA	\$ 503,452	55.6%	64.3%	28.0%	NA	NA	0.0%	45,3%	39.3%	11.8%	18.6%	2,39	N/A	N

Notes: Source: S&P Capital IQ, [1] Represents trailing 3-month average daily trading volume (in thousands). [2] CAGR = Compound Annual Growth Rate [3] Working capital excludes cash



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 92 of 156

Guideline Public Company Description		aluation of Theranos, Inc. s of December 31, 2014
Description	Ticker	lame
OraSure Technologies, Inc., together with its subsidiaries, develops, manufactures, markets, and sells oral fluid diagnostic product and specimen collection devices in the United States, Europe, and Internationally.	OSUR	raSure Technologies, Inc.
Trinity Blotech pic acquires, develops, manufactures, and markets medical diagnostic products for the clinical laboratory and poin of-care (POC) segments of the diagnostic market in the Americas, Africa, Asia, and Europe.	TRIB	rinity Biotech plc
Enzo Blochem, Inc., an integrated diagnostics, clinical lab, and life sciences company, researches, develops, manufactures, an markets diagnostic and research products based on genetic engineering, biotechnology, and molecular biology.	ENZ	nzo Blochem, Inc
QuidelOrtho Corporation focuses on the development and manufacture of diagnostic testing technologies across the continuum healthcare testing needs.	QDEL	QuidelOrtho Corporation
Exact Sciences Corporation provides cancer screening and diagnostic test products in the United States and internationally.	EXAS	xact Sciences Corporation
OPKO Health, Inc., a healthcare company, engages in the diagnostics and pharmaceuticals businesses in the United State Ireland, Chile, Spain, Israel, Mexico, and Internationally.	OPK	DPKO Health, Inc.
PerkinElmer, Inc. provides products, services, and solutions to the diagnostics, life sciences, and applied services marke worldwide.	PKI	PerkinElmer, Inc
Quest Diagnostics incorporated provides diagnostic testing, information, and services in the United States and internationally	DGX	Quest Diagnostics Incorporated
Laboratory Corporation of America Holdings operates as a global life sciences company that provides vital information to he doctors, hospitals, pharmaceutical companies, researchers, and patients make clear and confident decisions.	LH	aboratory Corporation of America Holdings
Myriad Genetics, Inc., a genetic testing and precision medicine company, develops and commercializes genetic tests in the Unite States and internationally.	MYGN	Ayriad Genetics, Inc.
Illumina, Inc. provides sequencing and array-based solutions for genetic and genomic analysis.	ILMN	Ilumina, Inc.
QIAGEN N.V. offers sample to insight solutions that transform biological materials into molecular insights worldwide.	QGEN	Diagen N.V.
Alere Inc. provides diagnostic tests for infectious disease, cardiometabolic disease, and toxicology in the United States ar internationally.	IQT2622336	Nere Inc.
Luminex Corporation develops, manufactures, and sells proprietary biological testing technologies and products for the diagnostic pharmaceutical, and research industries worldwide.	IQT2627430	uminex Corporation
Abaxis, Inc. develops, manufactures, markets, and sells portable blood analysis systems for use in human or veterinary patient ca to provide rapid blood constituent measurements for clinicians worldwide.	IQT2586525	Abaxis, Inc.
CombiMatrix Corporation provides clinical molecular diagnostic laboratory services in the United States.	IQT36309071	CombiMatrix Corporation
Affymetrix, Inc. provides life science products and molecular diagnostic products that enable parallel analysis of biological system at the gene, protein, and cell level.	IQT2587418	Affymetrix Inc.
Genomic Health, Inc., a healthcare company, provides clinically actionable genomic information to personalize cancer treatme decisions in the United States and internationally.	IQT24111615	Senomic Health, Inc.
Capheid, a molecular diagnostics company, develops, manufactures, and markets integrated systems for testing in the clinical an non-clinical markets.	IQT2599314	Cepheid
Nanosphere, Inc. develops, manufactures, and markets molecular diagnostic tests for infectious diseases and associated dra resistance markers for earlier disease detection, optimal patient treatment, and improved healthcare economics.	IQT38720096	Nanosphere, Inc.
GenMark Diagnostics, Inc. designs and manufactures multiplex molecular diagnostic solutions to enhance patient care, impro- quality metrics, and reduce the total cost-of-care for laboratory professionals, healthcare providers, and customers in the Unit States and Internationally.	IQT106626443	SenMark Diagnostics, Inc.
Bio-Reference Laboratories, Inc. provides clinical laboratory testing services for the detection, diagnosis, evaluation, monitorin and treatment of diseases in the United States.	IQT2594421	Bio-Reference Laboratories, Inc.

Notes; Source: S&P Capital IQ.



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 93 of 156

US v. Elizabeth Holmes Valuation of Theranos, Inc.				Guideline Public Con	Exhibit G.4
As of December 31, 2014	_			Guideline Public Con (thou:	ands of USD
Size		Liquidity	and a	Liquidity	
(Revenue, millions) Quest Diagnostics Incorporated	7.435.000	(Operating Net Working Capital-to-Rev		(Current Ratio)	
and a contract of the state of	6,011,600	Quest Diagnostics Incorporated	-1.4%	Exact Sciences Corporation	16,65
Laboratory Corporation of America Holdin		Laboratory Corporation of America Holdin	11,9%	QuidelOrtho Corporation	7.54
Alere Inc. PerkinElmer, Inc.	2,577,001 2,069,880	Enzo Blochem, Inc. Theranos, Inc. (at 12/31/18)	15.8%	GenMark Diagnostics, Inc.	6,35
Illumina, Inc.	1,861,358		18.6%	CombiMatrix Corporation	6.19
Qiagen N V	1,344,777	PerkinElmer, Inc. Bio-Reference Laboratories, Inc.	22.8%	Abaxis, Inc. Luminex Corporation	6,12
Bio-Reference Laboratories, Inc.	832,282				5,83
Myriad Genetics, Inc.	724,873	Affymetrix Inc. Myriad Genetics, Inc.	35.6%	Myriad Genetics, Inc.	5.35
Theranos, Inc. (at 12/31/18)			35.9%	OraSure Technologies, Inc.	4,96
Gepheid	503,462	Genomic Health, Inc. Alere Inc.	40 0%	Genomic Health, Inc.	3.67
	470,141		41.7%	Cepheid	3.77
Affymetrix Inc.	349,019	Trinity Biotech plc	44.7%	Trinity Biotech plc	3 13
Genomic Health, Inc.	275,706	Qlagen N V	53.3%	Affymetrix Inc.	2,87
Luminex Corporation	226,983	illumina; Inc.	62.7%	Qiagen N.V	2,66
QuidelOrtho Corporation	184,158	Luminex Corporation	64,6%	Illumina, Inc.	2.62
Abaxis, Inc.	182,777	OPKO Health, Inc.	65.5%	Bio-Reference Laboratories, Inc.	2.43
OraSure Technologies, Inc.	106,464	Cepheid	51.1%	Theranos, Inc. (at 12/31/18)	2,39
Trinity Biotech plc	104,872	CombiMatrix Corporation	82.6%	Alere Inc.	2.37
Enzo Blochem, Inc.	95,637	Abaxis, Inc.	85.5%	Nanosphere, Inc.	2.24
OPKO Health, Inc.	91,125	QuidelOnho Corporation	129.3%	PerkinElmer, Inc.	1.79
GenMark Diagnostics, Inc.	30,594	Nanosphere, Inc.	136.1%	Laboratory Corporation of America Holdi	173
Nanosphere, Inc.	14,290	OraSure Technologies, Inc.	190.3%	OPKO Health, Inc	1.72
ComblMatrix Corporation	8,042	GenMark Diagnostics, Inc.	215.1%	Enzo Biochem, Inc.	1.62
Exact Sciences Corporation	1,798	Exact Sciences Corporation	15247.8%	Quest Diagnostics Incorporated	0.94
Operational Efficiency		Growth		Growth	
(Capital Expenditures)		(Historical 1-year Growth Rate)		(Historical 3-year CAGR)	
Enzo Biochem, Inc.	0.8%	Theranos, Inc. (at 12/31/18)	55,6%	GenMark Diagnostics, Inc.	82.8%
PerkinElmer, Inc	1.3%	Nanosphere, Inc.	42.9%	Nanosphere, Inc.	78.0%
Bio-Reference Laboratories, Inc.	1.9%	Illumina, Inc.	31.0%	Theranos, Inc. (at 12/31/18)	64.3%
Allymetrix Inc.	2.3%	CombiMatrix Corporation	26.3%	OPKO Health, Inc.	45,2%
CombiMatrix Corporation	2.6%	Cepheid	17.2%	Illumina, Inc	20.8%
OraSure Technologies, Inc.	2.8%	Bio-Reference Laboratories, Inc.	16.3%	CombiMatrix Corporation	20.0%
Myriad Genetics, Inc.	3.3%	Trinity Biotech plc	15.0%	Cepheid	19.2%
Laboratory Corporation of America Holdin	3.4%	GenMark Diagnostics, Inc.	11.6%	Myriad Genetics, Inc.	17.8%
Abaxis, Inc.	3.4%	OraSure Technologies, Inc.	7.6%		
Genomic Health, Inc	3.8%			Bio-Reference Laboratories, Inc.	16.8%
Alere Inc	3.9%	Luminex Corporation Allymetrix Inc.	6.4%	Trinity Biotech plc	10.4%
Quest Diagnostics Incorporated			5.6%	Genomic Health, Inc.	10.2%
	4.1%	Genomic Health, Inc.	5.4%	Affymetrix inc	9,3%
OPKO Health, Inc.	5.2%	Enza Blochem, Inc	4.8%	OraSure Technologies, Inc.	9.1%
illumina, inc.	5.7%	Quest Diagnostics Incorporated	4,0%	Luminex Corporation	7.2%
QuidelOrtho Corporation	6.1%	QuidelOrtho Corporation	3.9%	Abaxis, Inc	6.5%
Qlagen N.V.	6,4%	Laboratory Corporation of America Holdin	3.5%	QuidelOrthe Corporation	5.1%
Luminex Corporation	7.5%	Qiagen N.V.	3.3%	Qiagen N.V.	4,8%
Trinity Biotech pic	7.8%	Abaxis, Inc.	1.7%	Laboratory Corporation of America Holdii	2.7%
Cepheid	10.0%	Alere Inc.	-1.2%	Alere inc	2.6%
Theranos, Inc. (at 12/31/18)	11.8%	Myriad Genetics, Inc.	-1.7%	PerkinElmer, Inc.	2.6%
Nanosphere, Inc.	17.7%	PerkinElmer, Inc.	-4.1%	Quest Diagnostics Incorporated	0.2%
GenMark Diagnostics, Inc.	18 7%	OPKO Health, Inc.	-5.6%	Enza Biochem, Inc.	-1.8%
and the second sec		Exact Sciences Corporation	-56.6%	Exact Sciences Corporation	-24.4%
Growth		Profitability		Operational Efficiency	
(Forward 1-year Growth Rate).		(Historical EBITDA Margin 1-year	2	(Return on Equily)	
Nanosphere, Inc.	63.9%	Theranos, Inc. (at 12/31/18)	45.3%	Myriad Genetics, Inc.	15.6%
OPKO Health, Inc.	50.3%	Illumina, Inc.	32.5%	Bio-Reference Laboratories, Inc.	15.1%
CombiMatrix Corporation	36.4%	Qlagen N.V.	29.4%	Illumina, Inc.	11.9%
Theranos, Inc. (at 12/31/18)	28.0%	My/lad Genetics, Inc.	26.5%	Abavis, Inc	11,5%
Abaxis, Inc.	25.4%	Abaxis, Inc.	24.0%	Laboratory Corporation of America Holdin	10.4%
GenMark Diagnostics, Inc.	25.3%	Luminex Corporation	20.0%	Quest Diagnostics Incorporated	9.1%
Illumina, Inc.	21.4%	Alère Inc.	19.6%	Luminex Corporation	6.6%
Myriad Genetics, Inc.	21.4%	Quest Diagnostics Incorporated	19.3%	Trinity Biotech pic	5.1%
Bio-Reference Laboratories, Inc.	17.6%	Laboratory Corporation of America Holdin	19.2%	PerkinElmer, Inc.	3.8%
Cepheid	15.6%	Trinity Biotech plc	19.0%	Qiagen N V.	3,4%
OraSure Technologies, Inc.	14.0%	PerkinElmer, Inc.	14,1%	Alere Inc.	1.8%
PerkinElmer, Inc.	13.0%	Bio-Reference Laboratories, Inc.	13.0%		
Genomic Health, Inc.	12.6%		12.2%	Affymetrix inc.	1.8%
QuidelOrtho Corporation	10.9%	Affymetrix Inc.		Theranos, Inc. (at 12/31/18)	0.0%
		QuidelOrtho Corporation	11,2%	QuidelOrtho Corporation	-1.3%
Laboratory Corporation of America Holdii	8.7%	Cepheld	2.6%	Cepheid	-1.9%
Enzo Biochem, Inc.	8.6%	OraSure Technologies, Inc.	-3.6%	OraSure Technologies, Inc.	-4.0%
Trinity Biotech plc	8.4%	Genomic Health, Inc.	-6.1%	OPRO Health, Inc.	-6.6%
Alere Inc.	7.6%	Enzo Blochem, Inc.	-9.0%	Genomic Health, Inc.	-10,2%
Luminex Corporation	7 3%	CombiMatrix Corporation	-76 3%	Enzo Blochem, Inc.	-20.1%
Qiagen N.V.	5 9%	OPKO Health, Inc.	-103.6%	GenMark Diagnostics, Inc.	-26,1%
Affymetrix loc	2.4%	GenMark Diagnostics, Inc	-115.0%	Exact Sciences Corporation	-29.2%
Quest Diagnostics Incorporated	1.8%			CombiMatrix Corporation	-36.0%
				Nanosphere, Inc.	-51.6%



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 94 of 156

Valuation of Theranos, Inc. As of December 31, 2014						the second second second second	Net Asset Value usands of USD)
			12/31/2014 Unadjusted	Ac	ljustments		Adjusted
Assets:			onaquotea		Juounonio		
Current Assets							
Current Operating Assets							
Cash & Equivalents		\$	465,933	\$	-	\$	465,933
Accounts Receivable			-		-		
Inventory			2,383				2,383
Other Current Assets		-	12,788	_	-		12,788
Total Current Operating Assets			481,104	-			481,104
Total Current Non-Operating Assets						-	
Total Current Assets			481,104		÷		481,104
Total Fixed Assets - Net			53,366		÷		53,366
Other Assets							
Intangible Assets							
Goodwill					1.1.1.2.		-
Other Intangible Assets	[1]	_			510,570	-	510,570
Total Intangible Assets - Net			1.15		510,570		510,570
Total Long Term Receivables			27,045				27,045
Total Other Non-Current Assets				-		_	
Total Non Current Assets		_	27,045		510,570	-	537,615
Fotal Assets		\$	561,515	\$	510,570	\$	1,072,085
iabilities and Equity:							
iabilities							
Current Liabilities							
Current Operating Liabilities							
Accounts Payable		\$	16,633			\$	16,633
Deferred Revenue							
Other Current Liabilities	[2]		400,359	_	(390,375)	-	9,984
Total Current Operating Liabilities			416,992		(390,375)		26,617
Total Current Debt Obligations							A
Total Current Liabilities			416,992		(390,375)		26,617
Non Current Liabilities			40 805				40,805

Total Long Term Debt		40,805				40,805
Other Non Current Liabilities		12.96.9				
Deferred Rent		-				1.1
Deferred Revenue, LT						1000
Customer Deposits		143,846				143,846
Other Non-current liabilities		33,750	_			33,750
Total Other Non Current Liabilities		177,596				177,596
Total Non Current Liabilities		218,401	-		<u>, </u>	218,401
Total Liabilities	\$	635,393	\$	(390,375)	\$	245,018
Total Equity Value - Controlling, Marketable	Basis				\$	827,067
Total Equity Value - Controlling, Marketable	Basis (rounder	d)			\$	827,000

Notes:

[1] Add value of technology and branding assets under cost to recreate method (Exhibit H.2)

[2] Adjust out "miscellaneous receipts" liability that represents proceeds received from 2014 capital raises, for which stock had not been issued yet.



US v. Elizabeth Holmes Valuation of Thelanos, Inc. As of December 31, 2014

Exhibit H.2. Cost to Recreate Method - Technology and Branding Assets (USD)

	-	-	Calendar Year 200 Allocation to	9		-	_	Calendar Year 201 Allocation to	6		-		Calendar Year 2011 Allocation to	-	
	10		Technology and	1			1.	Technology and	1.0		1		Technology and		
Functional Category	-10	otal Cost [1]	Brand [2]	All	ocated Cost	- 10	tal Cost [1]	Brand [2]	All	ocated Cost	- 1	otal Cost [1]	Brand [2]	AI	localed Cost
Salaries, Wages & SBC	÷	8.717.962	100%		6,717,962	5	7.485.029	100%	5	7,485.029	5	10.069.033	100%	\$	10.069.033
Payrol Taxes & Processing		483 505	100%	~	483 606		568.593	100%		568 593	1	784,642	100%		784,642
Health Insurance		417.083	100%		417,083		493.526	100%		493.526		767.508	100%		767.506
Other benefits		114,239	100%		114,239		180,253	100%		160,253		773,318	100%		773,318
Sales Commissions		5 000	0%		119.200		100,200	0%		100,200		113,310	0%		110,010
Subtotal Employees	\$	7,737,890		\$	7,732,890	5	8,727,402	0,0	5	8,727,402	\$	12,384,501	414	5	12,394,501
Contractor Services		488,192	100%		488,192		518,786	100%		518,786		1,637,549	100%		1,637,549
Subtotal for All Labor Costs	5	4.226.052	-	\$	8.221,082	\$	9,246,188		5	9,246,188	5	14,032,050		\$	14,032,050
Facility Costs	5	2,145,779	99.9%	5	2.144,392	5	2.064,230	100.0%	ŝ.	2,064,230	5	2,724,300	100.0%	\$	2.724,300
R&D Materials, Parts, Biological Compounds		935,138	100%		935,138		3,755,184	100%		3,786,184		5,955,745	100%		5,955,745
ont, Website, Market Studies, Trademark Costs		58,925	100%		58,925		75,422	100%		75,422		13,452	100%		13.452
Legal, Tax, Accounting Services - General		120.697	50%		60.349		284.605	50%		142.303		339,165	50%		169.583
Legal Regulatory and Patents Costs		313,058	100%		313,058		492,136	100%		492,136		1,307,265	100%		1,307 265
Legal Costs for Litigation			0%					0%		~		665 695	0%		
Expensed Equip., Software, and Maintenance		148.010	100%		148,010		226 101	100%		226.101		620,302	100%		620.302
Dues, Subscriptions, Licenses and Supplies		85,853	100%		85,853		233,858	100%		233,858		447,386	100%		447,386
Recruiting Costs		192,343	99.9%		192,219		212,706	100.0%		212,706		300,465	100.0%		300,466
Travel Expenses		226,711	50%		113,355		154,949	50%		77.474		396.822	50%		198,411
Interest (Incame), Expense & Bank Charges		109,143	0%				70,077	0%				(132,632)	0%		~
Supporting GAA Expanses		274,156	99 9%		273,981		361,955	100.0%		361,955		455,201	100.0%		455,201
Relocation Expenses		27,220	0%		1.1		6.272	0%		- + C		66.194	01%		-
Supplies for Manufacturing / Operations		754,146	100%		754 146		432,293	100%		432,293		77,629	100%		77,825
Inventory			100%				(13,553)	100%				(5,337)	100%		(5,337
Capital Expenditures		180,627	100%		180,627		1,635,110	100%		1,635,110		3,042,848	100%		3.042.848
Other Costs	_	37,441	0%	_		_	17,845	0%	-		_	15,927	0%		
Subtotal for Indirect Costs	5	5,589,248	1.272.1	\$	5,260,052	\$	10,040,161		\$	9,739,772	\$	16,290,629		5	15,307,450
Inflation Adjusted Total Expenses [4]		2.3%	VH 5.51	1	15.294.493		2.3%	Yrs 4.51	5.0	21.051.759		23%	Yrs 3.51	15	31.794.773

	-		Calendar Year 201	z				Calendar Year 201	3		_		Calendar Year 2014		
	T	otal Cost [1]	Allocation to Technology and Brand (2)		located Cost		otal Cost [1]	Allocation to Technology and Brand (2)		lipcated Cost		otal Cost [1]	Allocation to Technology and Brand [2]	4.0	ocated Cost
Functional Category	-					-					-				
Salaries, Wages & SBC	s	20,238,277	100%	\$	20,238,277	5	29,829,686	100%	\$	29,829,686	\$	46,369,000	100%	5	46,369,000
Payrol Taxes & Processing		1.561,634	100%		1,561,634		2 246 298	100%		2,245,298		3,450,000	100%		3,450,000
Health tosurance		1,429,986	100%		1,429,986		2.161.519	100%		2,161,519		3,325	100%		2.325
Other benefits		2,374,572	100%		2,374,572		3,255,991	100%		3,255,991		6.112.675	100%		8.112,675
Sales Commissions		-	0%	_			78	0%		-		312,000	0%		4
Subtotal Employees	5	25,604,469		\$	25,604,469	\$	37,493,572	1.77.11.20	\$	37,493,494	.8	38,247,000	A	5	57,935,000
Contractor Services		3,073,543	100%		3,073,543		5,372,096	100%		5,372,096		7,885,000	100%		7,885,000
Subtotal for All Labor Costs	-	28,678,011		5	28,578,011	5	42,865,668		5	42,865,590	5	66,132,000		5	65,820,000
Facility Costs	5	7,375,865	100.0%	s	7 375,665	5	7 140,632	100.0%	\$	7,140,617	\$	16.776.000	99.5%	5	16 686 139
R&D Materialis, Parts, Eliological Compounds		11,136,524	100%		11,136,524		10.069,736	100%		10.069.736		10.638.000	100%		10.638.000
Conf. Website, Market Studies, Trademark Costs		1,274,910	100%		1,274,910		7,684,778	100%		7,684,778		3,087,000	100%		3,087,000
Legal, Tax, Accounting Services - General		1,400,908	50%		700,454		709,756	50%		354.878		1,051,000	50%		525 500
Legal Regulatory and Patents Costs		1,750,963	100%		1,750,963		1,913,373	100%		1,913,373		2,199,000	100%		2,199,000
Legal Costs for Litigation		1,829,174	0%				6,197,019	0%				3,899,000	0%		1.0
Expensed Equip., Software, and Maintenance		1.084,748	100%		1.084.748		1,657,745	100%		1,657,745		1 792 000	100%		1,792,000
Dues, Subscriptions, Licenses and Supplies		1,211,873	100%		1,211,873		1,522,924	100%		1 522,924		3,583,000	100%		3,583,000
Recruiting Costs		795,875	100.0%		796,875		652,947	100 0%		552,946		1.147,000	99.5%		1,140,856
Travel Expenses		267,524	50%		133,762		787,042	50%		393,521		1,170,000	50%		585,000
Interest (Income), Expense & Bank Charges		143,830	0%				382.053	0%				(27,000)	0%		
Supporting G&A Expenses		934,674	100.0%		934,674		1,185,138	100,0%		1.165,135		2,335,000	99.5%		2,322,493
Relocation Expenses		65,756	(2%)		1		24,763	0%				43,000	0%		100
Supplies for Manufacturing / Operations		855,721	100%		855.721		1.574,094	100%		1.574,094		1.952.000	100%		1,952,000
Inventory		6,865,924	100%		5,865,924		1.742,894	100%		1,742,894		1,145,000	100%		1,145,000
Capital Expenditures		17,572,491	100%		17.572,491		8,854,769	100%		8,884,769		38 594,066	100%		38,594,065
Other Costs	10	90,432	0%	1			(44,941)	0%		1		30,000	0%	_	
Subtotal for indirect Costs	5	54,657,993		\$	51,694,585	3	51,984,722		\$	44,677,410	3	89,414,056		5	84,250,054
			Yes	_				Yrs	_				Yrs	-	
Inflation Adjusted Total Expenses [3]		2.3%	2.50	\$	85,119,867		23%	1.50	\$	90,613,216		2.3%	0.50	5	151,813,833

2004-2006 Expenses, inflation Adjusted (4)	5	24,235,601
2007 Expenses, Inflation Adjusted (5)		20,667,544
2008 Expenses, Inflation Adjusted (5)		15,502,205
2009-2014 Expenses. Inflation Adjusted	1.1	395,687,942

Total Direct and Indirect Development Costs 5 456.093.294

> Obsolescence Adjustment (6) 3% (12,117,801)

> > \$ 443,975,493 Subtotal Cost

Add Developer Profit Margin [7] 15%____ 66,596,324

Total Pretax Development Cost \$ 510,571,817

\$ 510,570,000

Total Pretax Development Cost (Rounded)

Per company prepared trial balances Allocations based on relevance of costs to developing Theranos technology and branding assets. Adjust aborater texpenses for average annual inflation of 2.3% over hatorcal period 2004 - 2005 expenses based on retained earnings deficit at 12/31/07 less operating loss reported for calendar year 2007. Expenses are adjusted for inflation of 2.3% from midpoint of period to valuation deter 2004 - 2005 expenses based on retained earnings deficit at 12/31/07 less operating loss reported for calendar year 2007. Expenses are adjusted for inflation of 2.3% from midpoint of period to valuation deter 2007 - 2005 expenses based on retained and the Excludes fination goes and inflatent income. Expenses are adjusted for inflation of 2.3% from midpoint of each period to valuation 2014 - 2005 expenses based on retained average annual inflatence and Excludes finationg oces and inflatence income. Expenses are adjusted for inflation of 2.3% from midpoint of each period to valuation 2014 - 2005 expenses based on median EBIT margin of peer group of firms in Exhibit G.2.

Notes [1] [2] [3] [4] [5] [5] [5] [7]



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 96 of 156

US v. Elizabeth Holmes	Exhibit I.1
Valuation of Theranos, Inc.	Discounted Cash Flow Key Assumptions
As of October 15, 2015	(thousands of USD)

		Fort	he Twelve Month Per	od Ending December	31.
	Basis	2015	2016	2017	2018
Total Revenue	Annual Growth Rate	97703.4%	97.0%	44.8%	55.6%
Terminal Value	Exit Multiple, Ex. J.1				4.0%
Total Cost of Revenue	% of Revenue	35.0%	32.0%	32.0%	30.0%
Total Operating Expenses	% of Revenue	85.4%	44.6%	33.6%	24.7%
Depreciation & Amortization	Exhibit I.3	1.7%	6.2%	6.6%	6.0%
Interest Expense	N/A	N/A	N/A	N/A	N/A
Income Taxes	% of Pre-Tax Net Income	40.0%	40.0%	40.0%	40.0%
Adjusted Operating Working Capital Adjusted Operating Working Capital Yr/yr Working Capital (Increase)/Reduction	Exhibit I.2	19.6% 22,272 281,664	14.4% 32,154 (9,883)	21.3% 68,786 (36,631)	19.2% 96,480 (27,694)
Capital Expenditures	% of Revenue	10.3%	27.8%	17,8%	16.9%



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 97 of 156

Valuation of Theranos, Inc. As of October 15, 2015																		Adjusted		ng Capital Ana thousands of
															_		-			(ilousalius of
		FYE		FYE		FYE		FYE		FYE		FYE		Fo	r the T	welve Month	Period	Ending Decen	nber 3	t
Vorking Capital	_1	2-31-09	12	2-31-10	1	2-31-11	1	2-31-12	_	12-31-13	_	12-31-14		2015		2016	_	2017		2018
fotal Revenue	[1] S.	2,794	\$	1,401	s	518	s	-	s		5	116	5	113,452	s	223,452	5	323,452	s	503,452
otal COS				1.14				1. A.						39,708		71,505		103,505	7	151,036
otal Operating Expenses		13,597		16,801		27.173		64.015		85,605		122,756		96,881		99,764		108,780		124,204
perating Assets																				
Cash & Equivalents	(2) \$	3,690	\$	36,718	s	88,056	5	51,785	s	30,966	S	465,933	5	95,554	5	98,397	5	107,290	s	122,503
Accounts Receivable	64.0	29	e.,	55	-						-		· ·	00,004	÷.	00,007	×	107,200	× .	122,000
Inventory		581		52				1.733		3,777		2,383		3,404		6,704		9,704		15,104
Other Current Assets		195		827		665		1,882		1,780		12,788		4,838		5,080		5.334		5,601
Note Receivable		¥.	-				-					27.045		27,512		9,585		9,735		
otal Operating Assets	-	4,495	_	37,600	-	88,721	_	55,401	_	36,523		508,149	-	131,308		119,766		132,063		143,208
perating Liabilities																				
Accounts Payable		560		440		1,238		7,669		7,430		16,633		13,879		16,480		16,174		22.774
Deferred Revenue		1.663		257		7		7		7				, elete						
Other Current Liabilities		950		1,298		2,845		7,714		4,830		9,984		7.073		8,265		9,453		11,52
Deferred Rent		723		759		767		1,572		1,857				1.2				100		-
Deferred Revenue, LT		2,146		3,808		3,801		3,801		3,801								1.12		
Customer Deposits						73,500		69,500		80,000		143,846		70,356		46,904		23,452		
Other Non-current liabilities		807	_	1,847	_	5,959	_	3,425	-	1,866	-	33,750	_	17,728	_	15,963		14,198	1 m	12,433
otal Operating Liabilities	-	6,849	-	8,409	_	88,117	-	93,687	-	99,791	-	204,213	-	109,036	-	87,612	-	63,277		46,728
et Operating Working Capital	5	(2,354)	\$	29,191	s	604	s	(38,287)	5	(63,268)	5	303,936	5	22,272	5	32,154	s	68,786	s	96,480
let Operating Working Capital as % of Revenue	1.1	-84.3%	-	2083,1%	-	116.6%	-	0.0%	100	0.0%	-	262013.8%	-	19.6%		14.4%		21.3%		19.2%
/yr Working Capital (Increase)/Reduction		1.1		(31,545)		28,587		38,891		24,981		(367,204)		281,664		(9,883)		(36,631)		(27,694
izMiner Working Capital as a % of Revenue														22.8%						
MA Working Capital as a % of Revenue														36.1%						
omparable Group Working Capital as a % of Revenue														60 2%						
ays' Operating Expenses in Cash		99		798		1,183		295		132		1,385		360		360		360		360
ays' Sales Outstanding		4		14				-		TOL		1,000		300		300		500		
ays' inventory		1.1				-		10 - C						31		34		34		3
ther Current Assets as a % of Revenue		7.0%		59.0%		128.4%		0.0%		0.0%		11024.1%		4.3%		2.3%		1.6%		1.1
ote Receivable as a % of Revenue		0.0%		D.0%		0.0%		0.0%		0.0%		23314.7%		24.2%		4.3%		3.0%		0.0
ays' Payables		(C+)		-		-				-2-		111112112		128		84		57		5
eposits & Deferred Revenue as a % of Revenue		136,3%		290.1%		14917.2%		0.0%		0.0%		124005.2%		62.0%		21.0%		7.3%		0.0
ther Current Liabilites as a % of Opex		7.0%		7.7%		10.5%		12.1%		5,6%		8.1%		7.3%		8.3%		8.7%		9.3
Deferred Rent as a % of Opex		5.3%		4.5%		2.8%		2.5%		2.2%		0.0%		0.0%		0.0%		0.0%		0.0
Other Non-current liabilities as a % of Opex		5.9%		11.0%		21.9%		5.4%		2.2%		27.5%		18,3%		16.0%		13.1%		10.0

Notes: [1] Historical balances are per Adjusted Income Statement. Refer to Exhibit B.5, Operating Expenses exclude Depreciation & Amortization. [2] Estimated operating cash levels equal to 6 months of operating expenses



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 98 of 156

US v. Elizabeth Holmes	Exhibit I.3
Valuation of Theranos, Inc.	Depreciation & Capital Expenditure Analysis
As of October 15, 2015	(thousands of USD)

				For the	Twe	lve Month Per	iod E	nding Decer	nber	31.		
Forecast Depreciation				2015	_	2016		2017		2018		
Total Revenue			\$	113,452	\$	223,452	\$	323,452	\$	503,452		
Beginning Balance - Total Fixed Assets Capital Expenditures				53,366 11,670		63,121 62,104		111,409 57,667		147,752 85,125		
Fixed Assets				65,036	-	125,225	-	169,076	-	232,877		
Capital Expenditures as a % of Revenue				10.29%		27.79%		17.83%		16.91%		
Depreciation Assumptions as to Depreciable Lives: Beg. Dep. Existing Fixed Assets - avg life Capital Additions - avg life	6.3 8.0											
Beginning Balance 2015 Additions 2016 Additions 2017 Additions 2018 Additions			\$	1,763 152	\$	8,460 1,463 3,893	S	8,460 1,463 7,786 3,615	\$	8,460 1,463 7,786 7,229 5,336		
Total Depreciation As a % of Revenue			\$	1,915 1.7%	\$	13,816 6,2%	s	21,324 6.6%	\$	30,274 6.0%		
Net Fixed Assets As a % of Revenue			\$	63,121 55.6%	\$	111,409 <i>4</i> 9.9%	\$	147,752 45.7%	\$	202,603 40.2%		
Historical Capital Expenditure Analysis			_	FYE 12-31-10	_	FYE 12-31-11		FYE 12-31-12		FYE 12-31-13		FYE 12-31-14
Net FA Chg from PY Depreciation (Gain)/Loss			\$	2,630 N/A 771	\$	4,648 2,018 1,025	\$	19,557 14,909 2,654 9	\$	22,021 2,463 5,573 849	\$	53,366 31,345 7,247 1
Capital Expenditures				N/A	-	3,043		17,572	-	8,885	-	38,594
Fixed Assets Fixed Assets as a % of Revenue	\$	verage 20,444 5021.8%	\$	2,630 187.7%	5	4,648 896.9%	\$	19,557 <i>N/A</i>	\$	22,021 N/A	\$	53,366 46005.2%
Capital Expenditures Capital Expenditures as a % of Revenue	4	17,024 4181.6%		N/A N/A		3,043 587.1%		17,572 N/A		8,885 N/A		38,594 33270.7%



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 99 of 156

US v. Elizabeth Holmes Valuation of Theranos, Inc As of October 15, 2015 Exhibit 1.4 Discount Rate - Venture Capital Rates of Return

Company Name	Ticker Symbol	Market Capitalization	Interest Bearing Debt	Trading Volume [7]	LTM Revenue	1-Year Growth Rate	Equity as a formation of Total Capit
OraSu/e Technolog/es, Inc	OSUR	\$ 267,159	\$ -	555	\$ 116,018	8 9%	100.0
Trinity Biotech plc	TRIB	271,362	99,069	121	101,392	-1.5%	733
Enzo Biochem, Inc.	ENZ	181,945	3,586	135	97,599	1.7%	99.
DuidelOrtho Corporation	QDEL	620,241	146,697	240	205,670	22 0%	80.
Exact Sciences Corporation	EXAS	713,931	6,156	2,658	26,521	1894.1%	99
OPKO Health, Inc.	NasdaqGS.OPK	5,015,072	145,354	5,704	241,080	179.4%	97.
PerkinElmer, Inc.	PKI	5,470,749	1,028,376	753	2,262,633	1.9%	84.
Quest Diagnostics Incorporated	DGX	9 197 441	3,731,000	1/043	7,527,000	3.0%	71.
Laboratory Corporation of America Holdings	LH	11,654,918	6,681,200	1/063	7,773,600	31.0%	63.1
Myriad Genetics, Inc.	MYGN	2,711,591		817	737,800	-0.9%	100.
illumina, Inc.	ILMN	21,971,248	1,110,101	1.950	2,140,593	23.3%	95.
Qiagen N.V.	QGEN	5,912,561	1,058,905	662	1,292,855	-3,9%	84.
Alere Inc	IQT2622336	3,975,232	3,601,525	602	2,483,662	-4.0%	52.
Luminex Corporation	IQT2627430	789,484	aloatinen	258	235,365	5.1%	100.
Abaxis, inc	IQT2586525	1,017.036	530	177	217,133	29.6%	99
CombiMatro Corporation	QT36309071	13,695	344	2	9,621	27.0%	97
Allymetrix inc.	IQT2587418	714,389	124,950	688	357,744	2.8%	85.
Genomic Health, Inc.	QT24111615	715,559	18910-000	221	281.451	2.2%	100
Gepheid	IQT2599314		285,406	1.075		15.8%	
		2,388,029		1,075	523,099		89
Nanosphere, Inc.	IQT38720096	16,632	15,474	245	18,871	44.5%	51
GenMark Diagnostics, Inc.	IQT106526443	353,067	9,794	225	36,051	34 0%	97
Bio-Reference Laboratories, Inc.	IQT2594421		69,849	376	882,467	15.1%	0.
Average		3 362 788	823,560	899	1,253,101	106.0%	82.4
Median		752.522	84,459	584	261,266	123%	92.3
		and the second sec					
Selected							97.0
a second s							
dustry Capital Structure							
Equity	95.0%						
Interest Bearing Debt	5.0%						
Tax Rate	40.0%						
ost of Equity							N.
	and the second second second		2.2. A.				Ref.
able 1: Venture Capital Average Actual Rates of	of Return for the Peri	iod ended Septemb	per 30, 2005				141
lage of Development	5-year		10-year		20-year		
	2002	2008	2002	2008	2002	2008	
eed/Early Stage	51.4%	3.0%	34.9%	25,5%	20.4%	22.1%	
alanced	20 9%	7 5%	20.9%	12,0%	14.3%	14,6%	
ater Stage	10 6%	8 1%	21.6%	7.3%	15.3%	14.7%	
Il Ventures	28.3%	5.7%	26.3%	13,4%	16.6%	17.2%	
the summer seators							10.01
able 2: Target Rates of Return	-						(2-5)
		the barries of the	Sahiman,		Advertising of the second		
		Scherlis and	Stevenson, and		Everett Median		
tage of Development	Plummer	Sahiman	Bhide	Everett	Returns		
tart-up	50% - 70%	50% - 70%	50% - 100%	30% - 40%	33.0%		
ist stage or "early development"	40% - 60%	40% - 60%	40% - 60%	23% - 38%	30.0%		
econd stage or "expansion"	35% - 50%	30% - 50%	30% - 40%	19% - 32%	25.0%		
ridge/IPO	25% - 35%	20% - 35%	20% - 30%	18% - 38%	23.0%		
able 3: Target Rates of Return				1			[6]
	Ruhnka /		Plumme Range of Discou				
and at Designation		informal.					
tage of Development	Young	Wetzel	High	Low			
eed	73.0%	50.0%	75.4%	49.2%			
art-up	54 8%	50 0%	59 6%	40 6%			
d Stage	42.2%	37.5%	49 3%	34.7%			
burth Stage	35 0%	30.0%	45 7%	31.2%			
if Stage	35.0%	22.5%	40.8%	28.1%			
bla & Therease Intraster Commute to the state	Internal Rates of Down	in Ital 2014 E-1	2015)				(0)
ble 4: Theranos Investor Forecasts Implied In	iernar Kales of Kelur	1 (FEO 2014 - FED)	2013)				(6)
vestor Group	IRR						
FM Forecast	75.5%						
FM Model	35.5%						
osley and RDV Forecast	54.0%						
urdoch Forecast	82.0%						
	Sea . W Pa						
	Selected Venture C	Capital Cost of Equ	ity	45.0%			(7)
eighted Average Cost of Capital							
eighted Average Cost of Capital Equity as a % of total capital			85.0%				
Equity as a % of total capital							
Equity as a % of total capital Cost of Equity (above)			95.0% 45.0%	A7 894			
Equity as a % of total capital				42 8%			
Equity as a % of total capital Cost of Equity (above) Weighted Cost of Equity			45.0%	42 B%			
Equity as a % of total capital Cost of Equity (above) Weighted Cost of Equity Debt as a % of total capital		JE DAN		42 8%			
Equity as a % of total capital Cost of Equity (above) Weighted Cost of Equity Debt as a % of total capital Cost of Debt [4]		25,00%	45.0%	42 8%			
Equity as a % of total capital Const of Equity (above) Weighted Cost of Equity Debt as a % of total capital Cost of Debt [4] After Tax Cost of Debt [tax rate above)		25,00%	45.0%				
Equity as a % of India capital Cost of Equity (above) Weighted Cost of Equity Debt as a % of India capital Cost of Debt [4]			45.0%	0.8%			
Equity as a % of total capital Cost of Equity (above) Weighted Cost of Equity Debt as a % of total capital Cost of Debt [4] After Tax Cost of Debt [tax rate above)	Weighted Average C		45.0%				
Equity as a % of total capital Const of Equity (above) Weighted Cost of Equity Debt as a % of total capital Cost of Debt [4] After Tax Cost of Debt [tax rate above)	Weighted Average C	Cost of Capital	45.0%	0.8%			

 Notes:
 (1) Source: Thomson Financial: The average annual return is based upon Thomson Financials: Private Equity Performance (ndex(PEPI))

 The PEPI is based on the taltest guarterity statistics from Thomson Financials: Private Equity Performance Database analyzing the cashflows and returns for over 1400 US venture capital and private equity partnerships

 [2] Plummer, James L, DED Report on Venture Capital Financial Analysis
 Schells, Daniel R, and William A, Sahman, 'A Method for Valuing High-Risk, Long Term, investments. The Venture Capital Method," Harvard Business School Teaching Note 9:289-005, Boston Harvard Business School Publishing, 1989.

 [4] William A, Sahiman, 'A Method Business O, Amar V, Bhode, et al., "Financing Entrepreneural Ventures,"
 Business Pundamental Series (Boston Harvard Business School Publishing, 1989).

Subartess - undamental series (costain - narvaro business School Publishing, 1996) Craig R. Eventt, "2021 Private Capital Markets Report (Malibu: Pepercine University Graziadio School of Business and Management, 2021), Table (5) 1, p. 5. Note that this publication also includes rates of return for many other types of private capital investments, as well as summaries of other information captured in Pepperdine's annual industry survey. (6) Dorsey, "Frery," A Particino Model for Venture Capital Performance Measurement and Investment Selection," Polaris Group, Inc. January 2000. (7) Refer to the report for discussion of the selected Venture Capital Rate of Return



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 100 of 156

US v. Elizabeth Holmes	Exhibit I.5
Valuation of Theranos, Inc.	Forecast Free Cash Flow to Invested Capital
As of October 15, 2015	(thousands of USD)

		For the	Twelv	e Month Per	iod E	nding Decen	ber 3	1,
		2015		2016	1.1.1	2017		2018
Total Revenue Total Cost of Revenue	\$	113,452 39,708	\$	223,452 71,505	\$	323,452 103,505	\$	503,452 151,036
Gross Margin GM %		73,744 65.0%		151,947 68.0%		219,947 68.0%	-	352,416 70.0%
Total Operating Expenses Operating Expense %		96,881 <i>85.4%</i>	1	99,764 44.6%		108,780 33.6%		124,204 24.7%
EBITDA %		(23,137) -20.4%		52,183 23.4%		111,167 34.4%		228,212 45.3%
Less: Partial Period Adjustment		18,317				-		
Adjusted EBITDA		(4,820)	-					
Depreciation & Amortization	0.000	1,915	1	13,816	<u></u>	21,324		30,274
EBIT %		(6,735) -5.9%		38,367 17.2%		89,843 27.8%		197,938 39.3%
Interest Expense					_			
Earnings Before Taxes Income Taxes	-	(6,735)		38,367		89,843 -		197,938
Forecast After-Tax Income NPAT %	\$	(6,735) -5.9%	\$	38,367 17.2%	\$	89,843 27.8%	\$	197,938 39.3%
Cash Flow								
Add: Depreciation & Amortization After-Tax Gross Cash Flow	-	1,915 (4,820)	-	13,816 52,183	-	21,324 111,167	-	30,274 228,212
Decrease / (Increase) in Working Capital Less: Capital Expenditures		281,664 (11,670)		(9,883) (62,104)		(36,631) (57,667)		(27,694) (85,125)
Free Cash Flow	\$	265,174	\$	(19,804)	\$	16,869	\$	115,393



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 101 of 156

US v. Elizabeth Holmes	Exhibit I.6
Valuation of Theranos, Inc.	Discounted Cash Flow Method Value Summary
As of October 15, 2015	(thousands of USD)

Forecast Period	C	Base ash Flow	Period	Discount Rate	PV Factor [2]		iscounted ish Flow [3]	
2015 2016	\$	265,174 (19,804)	0.11 0.71	44.0% 44.0%	0.9623 0.7717	\$	255,175 (15,282)	
2017 2018		16,869 115,393	1.71 2.71	44.0% 44.0%	0.5359 0.3721		9,040 42,943	
Terminal Value [1]		2,909,000	3.21	44.0%	0.3101		902,132	
ndicated Value						\$	1,194,008	
Add: C-2 Financing Pro							176,300	
Operating Losses for 2			5				(145,314)	
Deduct: Interest Bearin	ng De	bt				-	(40,805)	
Fotal Equity Value - C	Contr	olling, Marketable	Basis			\$	1,184,189	
Fotal Equity Value - C	Contr	olling, Marketable	Basis (rounded)			\$	1,184,000	

Notes:

[1] Refer to Exhibit J.1
[2] 1 / (1 + Discount Rate) ^ Period.
[3] Base Cash Flow x PV Factor.



lustion of Theranos, Inc. of October 15, 2015	_																Gi	ideline Public C	Exhibit . Company Meth
		-0.33	Debt.											1.11		Market Val	ue of invested	Capital /	
Name	Ticker	Cap	Pref Shr &	Cash					Revenue			EBITO		EBIT	Reven		EBIT		EBIT
Tarrite	() gent	cap	min int.	Gash	MVIC [1]	Price [1]	3-year	5-year	LTM	2016E	LTM	_	20168	LTM	LTM	2016E	LTM	2016E	LTM
OraSure Technologies, Inc.	OSUR	\$ 267,159	5	5 108,189	5 158,970 5	158,970	\$ 100,050	5 98,505	5 116,018	5 129,998	s	7.237 5	12,850	5 1.403	1.378	1.22	21.97x	12.37x	113.31
rinity Biotech plc	TRIB	271,362	99,089	104,289	265,142	167,073	99,362	94,508	101.392	115,039	1	7.182	24.972	12.657	2.62x	2 31x	15 49x	10.66x	21.03
Enzo Biochem, Inc.	ENZ	181,945	3,586	18,109	167,422	163,836	96,400	97,407	97.599	NA		8,875)	NA	(12,664)	1.72x	NA	NA	NA	NA
QuidelOrtho Corporation	ODEL	620,241	146,697	182,560	584,378	437.681	188,888	179,185	205.670	224,952		6,098	52.014	12.039	2.84x	2.60x	16.19x	11 24x	48 54
Exact Sciences Corporation	EXAS	713,931	6,156	343,509	376.578	370,422	14.395	10.877	26.521	117,061		4,373)	(154,902)	(151,231)	RA	3 221	NA	NA	NA NA
DPKO Health, Inc.	ISdagGS O	5,015,072	143.954	212.144	4 946 B82	4,802,928	164.731	128.548	247,080	1,239,762		4.542)	78.008	(88.273)	20 52*	3 998	NA	63.41x	NA
PerkinElmer, Inc.	PKJ	5,470,749	1,028,376	195.066	6.304.059	5.275.683	2 227,989	2 174 950	2,262,633	2 374 847		5,149	485.953	241.489	2.79%	2.65z	17 75x	12.978	26.10
Quest Diagnostics incorporated	OGX	9 197 441	3.632.000	123,000	12.906.441	9.074.441	7.393.534	7.370.262	7,527,000	7,622,205		9,000	1,521,683	1,140,000	1.718	1.69*	8516	8 48	11 32
Laboratory Corporation of America Holdings	LH	11,664,918	6,696,700	713,000	17.548.518	10.951.918	6 828 200	6.445.160	7,773,600	9,131,565		8 200	1.878.324	1,213,700	2.27×	1.93x	11.15x	9.40x	14.54
Myriad Genetics, Inc	MYGN	2,711,591		155,400	2 556 191	2 556 191	730,777	678.158	737,800	779.683		5,300	227,461	167.500	3.45x	3 26x	13.228	11 24x	19,041
Itumina, Inc.	ILMIN	21,971,248	1,142,229	1,439,406	21.674.071	20.531.842	1.872.918	1,661,529	2,140,593	2.576,267		6.572	913,442	642,962	10.13*	8.41	28 274	23 734	33.71
Diagen N.V.	OGEN	5,912,561	1,061,204	429,529	6.544,236	5,483,032	1.309.484	1.287.628	1,292,855	1,402,013		4,361	471,991	179,795	5.064	4.67x	17.954	13 878	35 40
Alere Inc.	OT262233	3,975,232	4,212,525	475,536	7,708,219	3,495,694	391	196	2,483,662	2,652,810		3.132	605,209	214,215	3.10x	2.91x	14.46x	12 744	35.98
Lumines Corporation	QT262743	789,484	24.	131,559	657,925	657,925	. C. 1		235,365	246 841		2,993	48 894	39,990	2.804	2.64x	12 42×	13 46×	15.45
Abans, Iric.	IOT258652	1,017,036	530	133,141	884,425	883,895	391	- 12 I	217.133	243,580		6 272	53,433	39 654	4.078	3.634	19.118	16.55x	22.30
CombiMatrix Corporation	2T3630907	13,695	344	5,549	8,490	6,146	-		9.621	15.845		5.9951	NA	(6,304)	D.88x	0.54x	NA	NA	NA
Allymetrix Inc.	QT258741	714,389	124,950	937,693	701,746	576,796	16	1.1	357,744	374,639		6.644	66,154	28,487	1.96x	1.87*	15.D4x	10.614	24 63
Senomic Health, Inc.	DT2411161	715,559		98,013	617,546	617,546			281,451	335,207	(2)	4,677)	10,950	(31,426)	2 19x	1.84	NA	56 40x	NA
Cepheid	QT259931-	2,388,029	285,406	326,184	2.347.251	2,061,845	(514)	(2,645)	523,099	526,028		6,250	50.077	(24.425)	4.49x	3.75*	NA	45.67*	114
Nanosphere, Inc.	2T3872005	16,632	15,474	12,339	19,767	4,293	18,647	18,759	18,871	24,880		9,703)	NA	(31,532)	7.05x	0.79x	NA	NA	NA
GenMark Diagnostics, Inc.	JT1066264	353,067	9,794	54.17E	308,683	298,889	(9,935)	(10,408)	36,051	52,729	(3)	6,446)	(44.875)	(41,732)	8.55x	5.85*	NA	NA	- 63.4
Bio-Reference Laboratories, Inc.	QT259442	1.8	69,849	25,146	44,703	(25.146)	28,752	27,994	882,467	NA	11	5,980	NA	89,519	D.05x	NA	0.394	NA	0.50
Correlation to MVIC. Correlation to Price							0.71	0.69	0.77	0 80 0 65		0.85	0.87	0.85			-		

Upper Quartile Mean Median		4.07x 3.98x		3.66x 2.99x		17 91x 15.17x		18.35x 20.87x		35.42 30.01
Lower Quartile	_	2.79x 1.72x	1	2.65x 1.87x	÷	15 27x 12 62x	1	12 85x 11.09x		23.471
Selected Multiple Subject Company Base Value	5	4.00x 503,452	5		5	13.90x 228.212	\$		\$	- 2
Indicated Value Interest Bearing Debt	1	2,013,808 N/A	3	N/A		3,172,147 N/A		NA		N/A
Indicated Equity Value Weighling	\$	2,013,808 33,3%	5	6.0%	*	3,172,147 66.7%		0.0%	4	0.09
Indicated Value Add, Subject Company Cash									\$	2,786,034
Total Invested Capital Value at 12/3	1/18	Controlling	Mat	Hetable)	Bas	is			1	2,508,535
Total Invested Cepital Value at 12/3	1/18	Controlling	Mar	ketable !	Bas	(rounded)				2,909,000

Holes: Source: S&P Capital IQ. [1] MVIC = Market Value of Invested Capital, Presented as net of casi;



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 103 of 156

ncial Ratio	any Key Finar (thousand	ublic Compa	uideline Pi	G	_	_			_								Valuation of Theranos, Inc. As of October 15, 2015
22												8123	14.7	2.40	and the		
Debt to TNW	Debt to Equity	Current Ratio	WC [3]	Capex	EBIT	As a SEBITDA	GM	2018E	ard Grow 2017E	2016E	3 Year	CAGR Rev 1 Year	LTM Revenue	Trading Volume [1]	Market Cap	Ticker	Name
		- toning															
0.0	0.0%	4.78	1.89898	2.2%	1.2%	6.2%	65.8%	NA	10.8%	12.0%	9,1%	8.9%	\$ 116,018	566	\$ 267,159	OSUR	DraSure Technologies, Inc.
181.2	47.0%	8.54	1.46681	8.3%	12.5%	16.9%	47.5%	NA	16.1%	13.5%	7.5%	-1.5%	101,392	121	271,362	TRIB	rinity Biotech plc
12.4	8.4%	1,94	0.23082	1.8%	-13.0%	-9.1%	43.9%	NA	NA	NA	-1.8%	1.7%	97,599	135	181,945	ENZ	nzo Biochem, Inc.
140.3	66.9%	6.91	1.04416	7.1%	5.9%	17.6%	64.1%	NA	8.4%	9.4%	13.6%	22.0%	205,670	240	620,241	QDEL	uidelOnho Corporation
1.7	1.7%	15.28	12.6631	N/A	-570.2%	N/A	23.7%	71.7%	96.5%	N/A	85.6%	1894.1%	26,521	2,658	713,931	EXAS	xact Sciences Corporation
-54.9	7.4%	1.45	0.66296	2.2%	-35.6%	-26.8%	38.3%	30.0%	25.5%	414.3%	87.5%	179.4%	241,080	5,704	5,015,072	NasdaqGS:OPK	DPKO Health, Inc.
-164.8	50.1%	1.94	0 22963	1.1%	10.7%	15.7%	45.5%	5.5%	4.5%	5.0%	2.8%	1,9%	2,262,633	753	5,470,749	PKI	erkinElmer, Inc.
-168.9	79.6%	1.45	0.06842	3.4%	15.1%	19.3%	38.2%	4.1%	2.3%	1.3%	0.7%	3,0%	7,527,000	1,043	9,197,441	DGX	Quest Diagnostics Incorporated
-142.1	135.5%	1.47	0.11098	2.8%	15.6%	20.3%	34.9%	3.2%	4,9%	17.5%	11.3%	31,0%	7,773,600	1,063	11,664,918	LH	aboratory Corporation of America Holc
0.0	0.0%	5.21	0.33654	1.8%	22.7%	26.2%	79.8%	22.1%	0.7%	5.7%	12.4%	-0,9%	737,800	817	2,711,591	MYGN	Ayriad Genetics, Inc.
119.9	56.4%	3.79	0.75987	6.6%	30.0%	35.8%	73.3%	14.9%	16.5%	20.4%	25.3%	23,3%	2,140,593	1,950	21,971,248	ILMN	lumina, Inc.
2753.9	42.0%	3.52	0.54094	7.3%	13.9%	28.2%	65.3%	6,5%	6.8%	8.4%	1.3%	-3,9%	1,292,856	862	5,912,561	QGEN	liagen N.V.
-197.6	171.3%	1.68	0.30628	3.8%	8.6%	21.5%	47.1%	6.0%	3.7%	6.8%	-2.9%	-4.0%	2,483,662	602	3,975,232	QT2622336	lere Inc.
0.0	0.0%	7.57	0.74435	8.7%	17.0%	22.5%	71.5%	22.6%	6.2%	5.7%	6.5%	5.1%	235,365	258	789,484	IQT2627430	uminex Corporation
0.2	0.2%	7.33		2.2%	18.3%	21.3%	54.6%	NA	NA	12.2%	9.2%	29.6%	217,133	177	1,017,036	IQT2586525	baxis, Inc.
4.7	4.7%	4.77	0.70835	1.3%	-65.5%	-62.3%	45.1%	34.5%	36.8%	64.7%	23.4%	27.0%	9,621	z	13,695	IQT36309071	CombiMatrix Corporation
177.0	37.6%	3.54	0.5037	3.6%	8.0%	13.0%	63.3%	5.4%	3.5%	4.7%	9.0%	2.8%	357.744	688	714,389	QT2587418	fymetrix Inc.
0.0	0.0%	3.26		7.4%	-11.2%	-8.8%	78.2%	13.0%	11.8%	19.1%	7.3%	2.2%	281,451	221	715,559	IQT24111615	Senomic Health, Inc.
95.0	77.8%	3.88	0.79831		-4.7%	1.6%	50.7%	17.2%	16.1%	19.7%	17.9%	15.8%	523,099	1,075	2,388,029	QT2599314	Cepheid
123.5	107.2%	1.18			-167.1%	N/A	-57.8%	NA	64.8%	31.8%	63.3%	44.5%	18,871	245	16.632	IQT38720096	lanosphere, Inc.
18.9	18.1%	5.41	1.40426		-115.8%	-105.6%	59.9%	56.2%	57.9%	46.3%	40.3%	34.0%	36.051	225	353,067	IQT106626443	GenMark Diagnostics, Inc.
24.3	20.7%	2.34	0.24663		10.1%	13.1%	47.4%	NA	NA	NA	14.4%	16.1%	882.467	376		IQT2594421	Bio-Reference Laboratories, Inc.
24.3	20.7%	2.24	0.24003	4.1.70	10,170	13.176	41.476	100	110		14.4 %	10.170	002,407		C		
113,7	64.2%	5.36	82.7%	7.4%	14.8%	21.3%	85.0%	26.3%	21.5%	20.0%	22.0%	28.9%	\$ 1,190,259	997	\$ 4,755,112		Upper Quartile
132.9	42.4%	4.42	118,8%	4.9%	-36.1%	3.3%	49.1%	21.0%	21.0%	37.8%	20.2%	106.0%	1,253,101	899	3,362,788		Mean
3.2	29.2%	3,66	60.2%	3.6%	8,3%	16.3%	49.1%	14.9%	10.6%	12.2%	10.3%	12.3%	261,266	584 229	752,522		Median
0.0	2.5%	1,94	26.2%	2.2%	-12.5%	-1.0%	44.2%	6.0%	4.7%	6.3%	6.7%	2.0%	105,049	229	291,789		Lower Quartile
N	N/A	2.39	19.2%	16.9%	39.3%	45.3%	0.0%	NA	NA	28.0%	64.3%	55.6%	\$ 503,452	NA	NA		Theranos, Inc. (at 12/31/18)

Notes: Source: S&P Capital IQ, [1] Represents trailing 3-month average daily trading volume (in thousands). [2] CAGR = Compound Annual Growth Rate [3] Working capital excludes cash



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 104 of 156

Valuation of Theranos, Inc. As of October 15, 2015	_	Guideline Public Company Description
Namo	Ticker	Description
DraSure Technologies, Inc.	OSUR	OraSure Technologies, Inc., together with its subsidiaries, develops, manufactures, markets, and sells oral fluid diagnostic product and specimen collection devices in the United States, Europe, and internationally.
Trinity Biotech plc	TRIB	Trinity Biotech plc acquires, develops, manufactures, and markets medical diagnostic products for the clinical laboratory and poin of-care (POC) segments of the diagnostic market in the Americas, Africa, Asia, and Europe.
Enzo Biochem, Inc.	ENZ	Enzo Biochem, Inc., an integrated diagnostics, clinical lab, and life sciences company, researches, develops, manufactures, an markets diagnostic and research products based on genetic engineering, biotechnology, and molecular biology.
QuidelOrtho Corporation	QDEL	QuidelOnho Corporation focuses on the development and manufacture of diagnostic testing technologies across the continuum healthcare testing needs.
Exact Sciences Corporation	EXAS	Exact Sciences Corporation provides cancer screening and diagnostic test products in the United States and internationally.
OPKO Health, Inc.	NasdaqGS:OPK	OPKO Health, Inc., a healthcare company, engages in the diagnostics and pharmaceuticals businesses in the United State Ireland, Chile, Spain, Israel, Mexico, and internationally.
PerkinElmer, Inc.	РКІ	PerkinElmer, Inc. provides products, services, and solutions to the diagnostics, life sciences, and applied services marke worldwide.
Quest Diagnostics Incorporated	DGX	Quest Diagnostics Incorporated provides diagnostic testing, information, and services in the United States and internationally.
Laboratory Corporation of America Holdings	LH	Laboratory Corporation of America Holdings operates as a global life sciences company that provides vital information to he doctors, hospitals, pharmaceutical companies, researchers, and patients make clear and confident decisions.
Myriad Genetics, Inc.	MYGN	Myriad Genetics, Inc., a genetic testing and precision medicine company, develops and commercializes genetic tests in the Unit States and Internationally.
Illumina, Inc.	ILMN	Illumina, Inc. provides sequencing and array-based solutions for genetic and genomic analysis.
Qiagen N.V	QGEN	QIAGEN N.V. offers sample to insight solutions that transform biological materials into molecular insights worldwide.
Alere Inc.	IQT2622336	Alere Inc. provides diagnostic tests for infectious disease, cardiometabolic disease, and toxicology in the United States an internationally
Luminex Corporation	IQT2627430	Luminex Corporation develops, manufactures, and sells proprietary biological testing technologies and products for the diagnostic pharmaceutical, and research industries worldwide.
Abaxis, Inc.	IQT2586525	Abaxis, Inc. develops, manufactures, markets, and sells portable blood analysis systems for use in human or veterinary patient ca to provide rapid blood constituent measurements for clinicians worldwide.
CombiMatrix Corporation	IQT36309071	CombiMatrix Corporation provides clinical molecular diagnostic laboratory services in the United States
Attymetrix Inc.	IQT2587418	Affymetrix, Inc. provides life science products and molecular diagnostic products that enable parallel analysis of biological system at the gene, protein, and cell level.
Genomic Health, Inc.	IQT24111615	Genomic Health, Inc., a healthcare company, provides clinically actionable genomic information to personalize cancer treatme decisions in the United States and internationally.
Cepheid	IQT2599314	Cepheid, a molecular diagnostics company, develops, manufactures, and markets integrated systems for testing in the clinical a non-clinical markets.
Nanosphere, Inc.	IQT38720096	Nanosphere, Inc. develops, manufactures, and markets molecular diagnostic tests for infectious diseases and associated dr resistance markers for earlier disease detection, optimal patient treatment, and improved healthcare economics.
GenMark Diagnostics, Inc.	IQT106626443	GenMark Diagnostics, Inc. designs and manufactures multiplex molecular diagnostic solutions to enhance patient care, impro- quality metrics, and reduce the total cost-of-care for laboratory professionals, healthcare providers, and customers in the Unit States and internationally.
Blo-Reference Laboratories, Inc.	IQT2594421	Bio-Reference Laboratories, Inc. provides clinical laboratory testing services for the detection, diagnosis, evaluation, monitoria and treatment of diseases in the United States.

Notes: Source: S&P Capital IQ.



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 105 of 156

Valuation of Theranos, Inc.				Guideline Public Con	
As of October 15, 2015					sands of USD)
Size		Liquidity		Liquidity	
(Revenue, millions)		(Operaling Net Working Capital-to-Revenu		(Current Ratio)	-
Laboratory Corporation of America Holdir 5	7,773,600	Quest Diagnostics Incorporated	6.8%	Exact Sciences Corporation	15 2B
Quest Diagnostics Incorporated	7,527,000	Laboratory Corporation of America Holdin	11.1%	Trinity Blotech plc	8.54
Alere Inc.	2,483,662	Theranos, Inc. (at 12/31/18)	19.2%	Luminex Corporation	7.57
PerkinElmer, Inc.	2,262,633	Nanosphere, Inc.	21.4%	Abaxis, Inc.	7.33
illumina, Iric.	2,140,593	PerkinElmer, Inc.	23.0%	QuidelOtho Corporation	6.91
Qiagen N.V	1,292,856	Enzo Blochem, Inc.	23,1%	GenMark Diagnostics, Inc.	5.41
Bio-Reference Laboratories, Inc.	882,467	Bio-Reference Laboratories, Inc.	24.7%	Myriad Genetics, Inc.	5.21
Myriad Genetics, Inc.	737,800	Alere Inc.	30.6%	OraSure Technologies, Inc.	4 75
Cepheid	523,099	Myriad Genetics, Inc.	33 7%	CombiMatrix Corporation	4.77
Theranos, Inc. (at 12/31/18)	603,452	Genomic Health, Inc.	35.0%	Cepheid	3.88
Affymetrix Inc.	357,744	Affymetrix Inc.	50.4%	Hymina, Inc.	3.79
Genomic Health, Inc. OPKO Health, Inc.	281,451	Qiagen N.V	54.1%	Alfymetrix Inc.	3.54
	241,080	OPKO Health, Inc.	66.3%	Qiagen N.V.	3 52
Luminex Corporation	235,365	CombiMatrix Corporation	70.8%	Genomic Health, Inc.	3.26
Abakis, Inc.	217,133	Luminex Corporation	74.4%	Theranos, Inc. (at 12/31/18)	2.39
QuidelOrthe Corporation	205,670	Illumina, Inc.	76.0%	Bio-Reference Laboratories, Inc.	2.34
OraSure Technologies, Inc.	116,018	Cepheid	79.8%	Enza Blochem, Inc.	1.94
Trinity Blotech plc	101,392	Abaxis, inc.	83.7%	PerkinElmer, Inc.	1.94
Enzo Biochem, Inc.	97,599	QuidelOrthe Corporation	104.4%	Alere Inc.	1.68
GenMark Diagnostics, Inc	36,051	GenMark Diagnostics, Inc.	140.4%	Laboratory Corporation of America Holdir	1.47
Exact Sciences Corporation	26,521	Trinity Biotech plc	146.7%	Quest Diagnostics Incorporated	1.45
Nanosphere, Inc.	18,871	OraSure Technologies, Inc.	189 9%	OPKO Health, Inc.	1,45
CombiMatrix Corporation	9.621	Exact Sciences Corporation	1266.3%	Nanosphere, Inc.	1.18
Operational Efficiency		Growth		Growth	
(Capital Expenditures)		(Historical 1-year Growth Rate)	1000	(Historical 3-year CAGR)	
PerkinElmer, Inc.	1.1%	Exact Sciences Corporation	1894.1%	OPKO Health, Inc.	87.5%
CombiMatrix Corporation	1.3%	OPKO Health, Inc.	179.4%	Exact Sciences Corporation	85.6%
Myriad Genetics, Inc.	1.8%	Theranos, Inc. (at 12/31/18)	55.6%	Theranos, Inc. (at 12/31/18)	64.3%
Enze Biochem, Inc.	1.8%	Nanosphere, Inc.	44.5%	Nanosphere, inc.	63.3%
OPKO Health, Inc.	2.2%	GenMark Diagnostics, Inc.	34.0%	GenMark Diagnostics, Inc.	40.3%
OraSure Technologies, Inc.	2.2%	Laboratory Corporation of America Holdin	31.0%	Illumina, Inc	25.3%
Abaxis, Inc.	2.2%	Abaxis, Inc	29 6%	CombiMutrix Corporation	23.4%
Bio-Reference Laboratories, Inc.	2.7%	CombiMatrix Corporation	27.0%	Cepheid	17.9%
Laboratory Corporation of America Holdii	2.8%	Illumina, Inc.	23.3%	Bio-Reference Laboratories, Inc.	14.4%
Quest Diagnostics Incorporated	3.4%	QuidelOnho Corporation	22.0%	QuidelOrtho Corporation	13.6%
Affymetrix Inc.	3.5%	Bio-Reference Laboratories, Inc.	15.1%	Myriad Genetics, Inc.	12.4%
Alere Inc.	3.8%	Cepheid	15.8%	Laboratory Corporation of America Holdii	11.3%
Illumina, Inc.	5.5%	OraSure Technologies, Inc.	8,9%	Abaxis, Inc.	9.2%
QuidelOrtho Corporation	7.1%	Luminex Corporation	5.1%	OraSure Technologies, Inc.	9.1%
Qiagen N.V.	7.3%	Quest Diagnostics Incorporated	3.0%	Affymetrix Inc.	9.0%
Cepheid	7.4%	Affymetrix Inc.	2,8%	Trinity Biotech plc	7.5%
Genomic Health, Inc.	7.4%	Genomic Health, Inc.	2.2%	Genomic Health, Inc.	7.3%
Nanosphere, Inc.	5,2%	PerkinElmer, Inc.	1.9%	Luminex Corporation	6.5%
Trinity Biotech plc	8.3%	Enzo Blochem, Inc.	1.7%	PerkinElmer, Inc.	2.8%
Luminex Corporation	8.7%	Myriad Genetics, Inc.	-0.9%	Qiagen N.V	1.3%
GenMark Diagnostics, Inc.	13.6%	Trinity Blotech plc	-1.5%	Quest Diagnostics Incorporated	0.7%
Theranos, inc. (at 12/31/18)	16.9%	Qiagen N.V.	-3.9%	Enzo Blochem, Inc.	-1.8%
Thereades, me. (at 12/3 mill)	10.9701	Alere Inc.	-4.0%	Alere Inc.	-2.8%
		Alere Inc.	-4.075	Alere Inc.	-2.9%
Growth		Profitability		Operational Efficiency	
(Forward 1-year Growth Rale)		(Historical EBITDA Margin 1-year)		(Return on Equity)	
OPKO Health, Inc.	414.3%	Theranos, Inc. (at 12/31/18)	45.3%	Myriad Genetics, Inc.	15.0%
CombiMatrix Corporation	64.7%	Illumina, Inc.	35.8%	Bio-Reference Laboratories, Inc.	
GenMark Diagnostics, Inc	46 3%	Qiagen N.V	28.2%		14.8%
				Illumina, Inc.	14.3%
Nanosphere, Inc.	31.8%	Myriad Genetics, Inc.	26.2%	Abaxis, Inc.	11.4%
Theranos, Inc. (at 12/31/18) Illumina, Inc.	20.4%	Luminex Corporation Alere Inc.	22.5%	Laboratory Corporation of America Holdii	8.7%
Cepheid				Quest Diagnostics Incorporated	
Genomic Health, Inc.	19.7%	Abaxis, Inc. Laboratory Corporation of America Holdin	21.3%	Luminex Corporation PerkinElmer, Inc.	7 8%
Laboratory Corporation of America Holdle Trinity Biotech plc	17.5%	Quest Diagnostics Incorporated QuidelOrtho Corporation	19.3%	Affymetrix Inc.	4.2%
Abaxis, Inc.	12.2%	Trinity Blotech pic	17.6%	Trinity Biotech plc	3 1%
OraSure Technologies, Inc.	12.2%	PerkinElmer, Inc	15.7%	Qiagen N.V	
QuidelOrthe Corporation	9.4%	Bio-Reference Laboratories, Inc.		QuidelOrthe Corporation	2.6%
	9.4%		13.1%	Alere Inc.	2.4%
Glagen N.V.		Affymetrix Inc	13 0%	OraSure Technologies, Inc.	0.5%
Alere Inc	6.8%	OraSure Technologies, Inc.	6.2%	Theranos, Inc. (at 12/31/18)	0.0%
Luminex Corporation	5.7%	Cepheid	1.6%	Cepheid	-2.4%
Myriad Genetics, Inc.	5.7%	Genomic Health, Inc.	-8.8%	OPKO Health, Inc.	-3.5%
PerkinElmer, Inc.	5.0%	Enzo Biochem, Inc.	-9.1%	Genomic Health, Inc.	-14.2%
Affymetnx Inc.	4.7%	OPKO Health, Inc	-26.8%	Enzo Biochem, Inc.	-15.2%
Quest Diagnostics Incorporated	1.3%	CombiMatrix Corporation	-62.3%	Exact Sciences Corporation	-32.4%
a service a service servic		GenMark Diagnostics, Inc.	-106.6%	GenMark Diagnostics, Inc.	-35.1%
		GenMark Diagnostics, Inc.	-105.6%	GenMark Diagnostics, Inc CombiMatrix Corporation	-47.1%
		GenMark Diagnostics, Inc.	-106.6%		

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Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 106 of 156

Valuation of Theranos, Inc.							Net Asset Value
As of October 15, 2015						(tric	ousands of USD
			12/31/2014	1	wetters at		1
Annatas		_	Unadjusted	A	djustments	-	Adjusted
Assets:							
Current Assets							
Current Operating Assets	141		405 000		20.000	s	400 044
Cash & Equivalents Accounts Receivable	[1]	\$	465,933	\$	30,986	\$	496,919
Inventory			2,383				2,38
Other Current Assets							
Total Current Operating Assets			12,788 481,104		30,986	-	12,78
Total Current Non-Operating Assets			401,104		30,500		512,050
Total Current Assets		_	481,104	-	30,986	-	512,090
Total Guilent Assets					00,000		
Total Fixed Assets - Net			53,366		1.18		53,366
Other Assets							
Intangible Assets							
Goodwill							-
Other Intangible Assets	[2]				703,330		703,330
Total Intangible Assets - Net		-			703,330		703,330
Total Long Term Receivables			27,045		-		27,045
Total Other Non-Current Assets							
Total Non Current Assets		_	27,045	_	703,330	_	730,375
otal Assets		\$	561,515	\$	734,316	\$	1,295,831
iabilities and Equity:							
abilities							
Current Liabilities							
Current Operating Liabilities							
Accounts Payable		\$	16,633	\$		\$	16,633
Deferred Revenue							
Other Current Liabilities	[3]		400,359		(390,375)	-	9,984
Total Current Operating Liabilities			416,992		(390,375)	_	26,617
Total Current Debt Obligations				_	-		
Total Current Liabilities			416,992		(390,375)		26,617
Non Current Liabilities							
Total Long Term Debt			40,805				40,805
Other Non Current Liabilities							
Deferred Rent							
Deferred Revenue, LT			1. S. A.		-		· · · · ·
Customer Deposits			143,846				143,846
Other Non-current liabilities		_	33,750	-		-	33,750
Total Other Non Current Liabilities			177,596				177,596
Total Non Current Liabilities		_	218,401				218,401
otal Liabilities		\$	635,393	\$	(390,375)	\$	245,018
otal Equity Value - Controlling, Marketable	Basis					\$	1,050,813
server and the server is a server which there are an experience of the server of the server server and the server							

Notes:

 Add proceeds from 2015 capital raises of C-2 Preferred not on 12/31/14 balance sheet, minus pro-rated operating loss through 10/15/15.

[2] Add value of technology and branding assets under cost to recreate method (Exhibit K.2).

[3] Adjust out "miscellaneous receipts" liability that represents proceeds received from 2014 capital raises, for which stock had not been issued yet.

Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 107 of 156

Crist to Recorde Mathod - Tech

			Calendar Vear 2009	h.,				Calendar Year 201	10				Calendar Year 201	1	
		KAI Cost (11	Allocation to Technology and Brand (2)		ocaled Cost		otal Cost (1)	Allocation to Technology and Brand (2)		located Cost		otal Cost (1)	Allocation to Technology and Brand (2)		ocaled Cost
Functional Category		an addition	Grand [4]		or area cost		Control of the	Diama (a)		ALC AREA CAPAT		Gal Gost [1]	BUGING [R]	-	Contra Cont
Salaries, Wages & SBC	8	6.717.962	100%	5	6.717.962	5	7.485 029	100%		7.485.029	s	10 069 033	100%		10.069.033
Pavoil Taxes & Processing	с.	453.606	100%		483 606		568 593	100%		594,593	. 7	784,642	100%	1.2	784.647
Health Insurante		417.083	100%		417.053		493 526	100%		493 576		767 508	100%		767.508
Other benefits		114,239	100 %		114,239		180 253	100%		180,253		773,318	1001		773,316
Sales Commissions		5,000	0%		derment of			0%					0%		
Subtotal Employees	\$	7,737,890		5	7,732,690	5	8,727,452	1	\$	6,727,402	5	12,254,501		\$	12,394,501
Contractor Services		468,192	100%		466,192		518,786	100%		515,785		1,637,549	100%		1,631,549
Subfotal for All Labor Costs	5	8,226,082	1.1.1.1	\$	8,221,062	\$	9,245,136	1.0.7	\$	9,245,100	-5	14,012,050		5	14,852,850
Facility Costs	\$	2,145,779	99.57	5	2,144,392		2,064,230	100.0%	5	2,064,230	5	2,724,300	100.0%	. 8	2,724,300
RAD Materials, Plats, Biological Compounds		935,138	100%		935,138		3,780,184	100%		3,786,168		5 955.745	100%		5,955,745
Cont., Website, Market Studies, Trademark Costs		58,925	100%		58,925		75,422	100%		75,422		13,452	100%		13,452
Legal, Tax, Accounting Services - General		130,607	50%.		60,349		784,605	50%		142 303		339,165	90%		169.583
Legisl Regulatory and Palents Costs		313,058	100%		313,058		492,135	100%		492,136		1,307,265	100%		1,307.265
Legal Costs for Litigation			0%					05				665,605	0%		
Expensed Equip., Software, and Maintenance		148,010	100%		148,010		226,101	100%		226,101		626,362	100%		620,302
Dum, Subscriptibes, Licenses and Sopplims		85,853	100%		85,853		233.858	100%		233,858		447,386	HOO N.		447,386
Recruiting Costs		192,343	399.59 Th		192,219		212,706	100.0%		212,706		300,466	106.0%		300,455
Travel Expension		226,711	50%		113,355		154,949	50%		77,474		306,822	50%		198,411
Intrivest (locome), Expense & Bank Charges.		109,143	0%				70,077	0%		1.040		(132,632)	0%		
Supporting G&A Expension		274,158	99.9%		273,581		361.955	100.0%		361,955		455,201	100.0%		455,201
Relocition Expension		27,220	0%				6,272	0%				66,194	B*N		1.0
Supplies for Manufacturing / Operations		754,146	100%		754,145		437,293	100%		432,293		77.529	100%		77,629
Inventiony		lei.	100%				(13,583)	100%				(5,337)	100%		(5.337
Capital Expenditions		180,627	100%		180 627		1,635,110	100%		7 625,110		3.047.848	100.%		3,042,845
Other Dosts		17,441	0%	-			57,845	0%	-			15,927	0%	-	1114
Subtotal for Indirect Costs	5	5,589,348		\$	5,260,052	\$	10,040,161		5	9,719,772	5	16,290,629		\$	15,307,450
			Vrs	-				Wra.	-	-			WA.		
inflation Adjusted Total Expenses (4)		23%	6 30	5	15.573.573		23%	5.30	5	21,435,892		2.3%	4 30	5	32.374.935

	_		Calendar Year 2012	·		_		Calendar Year 2013	1	-	_		Calendar Year 2014			1		Calendar Year 2016 Allocation to		
	'n	otal Crait [1]	Allocation to Technology and Brand (2)		liocated Cost	1	prai Cost (1)	Ailocation to Technology and Brand [2]	Ā	located Cost		otal Cost [1]	Allocation to Technology and Brand (2)		Recated Cost	,	fatal Cost (1)	Allocation to Technology and Brand [2]	41	loc atent Cos
Functional Category						-			-							9			1.1	
Salarina, Wagas & SBC	4	20,238,277	100%	5	20,238,277	5	20.820.588	100%	5	29,829,636	3	46,369,000	100%		46.369,000	5	64,272,000	88%		56,338,000
Payioli Taxes & Processing		1,561,634	100%		1,561,534		2,246,298	100%		2,245,298		3,450,000	10016		3,450,000		4,573.000	88%		4,001,375
Health Insurance		1,429,556	100%		1,429,986		2,161,519	100%		2,181,519		3,325	100%		3.325		4,500	88%		4,200
Cither bonefils		2,374,572	100%		2,374,572		3,255,991	100%		3,256,991		6,112,675	10034		8,112,675		11,562,700	38%		10,116,975
Salm Commissions		à	0%	_			78	0%	_			312,000	0%	_		-	453,000	O'N.		
Subtotal Employees	5	25,664,469		5	25,664,469	5	37,493,572		5	37,433,454	\$	58,247,000		\$	57,955,000	5	00,065,000	-	5	70,360,500
Dontractor Services		3.073,543	100%		3.073,543		5,372,096	100%		5,372,096		7,885,000	100%		7,585,000		9,673,000	88%		8,463,875
Subtotal for All Labor Costs	5	28,678,011		5	28,678,011	\$	42,065,668	1	5	42,865,590	\$	66,132,000		5	65,620,000	\$	90,536,000		5	76,824,375
Fichty Costs		7.375.665	100.0%	1.	7,375,665		7,140,632	100.0%	1.	7,140,617	5	16,776,000	99.5%		16 656 139		15 386 000	67.0%		14,774,269
RAD Maintiale, Parts Biological Compounds	10	11,136,524	100%		11,135,524		10.069.736	100%		10.060 /36		10 638 000	100%		10 638 000	- 5	13 621 000	88%		11.918.375
Conf. Website Market Studies, Trademark Costs.		1,274,910	100		1,274,910		7.684.778	100%		7,684,778		3.087.000	100%		3,057,000		7,974,000	33%		6,977,250
Logal, Tay, Accounting Services - General		1,400.905	50%		700,454		709,756	50%		354.878		1,051,000	50%		\$75,500		15,181,000	44%		6.641.688
Legal Regulatory and Patents Costs.		1,750,963	100%		1,750,952		1,913,373	100%		1,913,373		2,199,000	100%		2,199,000		5.612,000	85%		4,910,500
Lingal Costs for Liligation		1.829.174	OH.				6.197.019	D'N.		our onteres		3 899 000	0%				4.872.000	0%		
Expensed Equip Software and Maintenance		1,084,748	100%		1.084,746		1.657.745	100%		1.557.745		1,792,000	100%		1,792,000		2,691,000	80%		2 354,625
Does, Subscriptions, Lionism and Supplies		1.211 873	100%		1.211.873		1/522.924	100%		1.922.924		1,583,000	100%		3.583.000		4,508,000	56%		3,944,500
Reculting Costs		796.075	100 0%		796.875		552,947	100 0%		552,946		1,147,000	99.5%		1.140.856		1,337,000	87.0%		1,163,321
Travel Expenses		267.524	50%		133,762		787.042	50%		393.521		1,170,000	50%		\$85,000		3.004.000	44%		1.314.250
Interest (Income), Expense & Bank Charses		143 630	g's.		1.44,744		362 (63	0%				(27.000)	17%		203,000		(1,335,900)	0%		1.2111.2.29
Supporting G&A Expenses		934,674	100.0%		934.674		1,185,138	100.0%		1.185.135		2,335,000	99.5%		2,322,493		3,041,000	87.0%		7.045.969
Rélocion Exercisio		65,756	0%		-		24,763	0%		(These have		43,000	.0%		P.062.400		167.000	0%		alle to the s
Supplies for Manufacturing / Operations		855.721	100%		855,721		1,574,094	100%		1574 094		1.952,000	100%		1.952.000		2,285,000	BAN.		2 000 250
Inventory		6,866,924	100%		6,865 924		1,742.694	100%		1,742,894		1,145,000	100 1		1,145,000		1,959,000	66%		1.714 125
Capital Expenditures		17,572,491	100%		17.572.491		8.854,769	100%		8.884,769		38,594,065	100%		38,594,065		21,598,615	88%		10.041,785
Other Create		90,432	0%		Hanstan		(44,941)	0%		staget, real		30,000	0%		30,004,000		294 000	0%		1 a Jacob 1 / Jacob
Subtotal for Indirect Costs	8	54,457,853		8	91,694,585	5	51,994,722		\$	44.677,410	5	19,414,056	9.8	15	84,250,054	5	103,764,615		1	79,257.911
			Yrs	1.				Yra	ć.	210.0			Yrs					Yes		
Inflation Adjusted Total Expenses (3)		2.3%	3.29	5	86,673,058		2.3%	2.29	5	32,266,644		2.3%	1.79	5	154,582,395		2.3%	0.39	5	159,518,037

\$ 159,518,037	G	0,39	\$ 154.582,595
\$ 24,677,530 21,044,667 15,785,877 562,426,134		es, initiation Adjusted [4] es, Initiation Adjusted [5] es, Initiation Adjusted [5] esses, Initiation Adjusted [5]	200
\$ \$23,333,709	1	ct Development Costs	Total Direct
2% (12.338.915)	2%_	escence Adjustment (5)	
\$ 611,594,793	1.1	Subtotal Cost	
15% 91,739,219	15N	veloper Profit Marsin (7)	
\$ 703,334,012		ax Development Cost	

\$ 703,330,000 Total Pretax Development Cost (Ro

Notes 111 Per company 121 Aliscations b. 131 Adjust allocat 141 2004 - 2006 (151 2007 - 2008 (153 2007 - 2008 (154 Adjusted for e 171 Developer ma

JS v. Elizabeth Holmes Valuation of Theranos, Inc. As of February 7, 2014														NAV Equity A	llocati	Exhibit L on 2/7/14 - Step (USL
Break Point Calculation				\$0.015	1 5	0.030	1	\$0.066	-	\$0.072	-	\$0.094	1	\$0,170	-	\$0.206
Share Class	Number of Shares	Series C, C-1, C-2 Lig. Preference	Series A, B Liq. Preference	\$0.015 Options Exercise	\$0.03	Options ercise	\$0.	066 Options Exercise	(72 Warrants / Options on ommon Ex.	\$0	.094 Options Exercise	\$	0.170 Options Exercise	\$0	206 Options
Preferred Share Classes Series A @ \$0,150 Series B @ \$0,1846 Series C @ \$0,564 Series C-1 @ \$3,00 Series C-1 @ \$15,00 Series C-2 @ \$17,00	46,320,045 54,162,965 58,896,105 25,175,001 7,500,032 9,669,998	\$. 33,217,403 75,525,003 112,500,480 164,389,965	\$ 6,948,007 10,000,000 33,217,403 75,525,003 112,500,480 164,389,966	\$ 7,642,80 10,812,44 34,100,84 75,902,62 112,612,98 164,535,01	4 5 8 0 1	9,032,409 12,437,333 35,867,728 76,657,878 12,837,981 (64,825,116	S	12,089,532 16,012,089 39,754,871 78,319,428 113,332,984 165,463,336	\$	15,424,575 19,911,822 43,995,390 80,132,028 113,872,986 166,159,576	5	19,778,659 25,003,141 49,531,624 82,498,478 114,577,989 167,068,555	15	27,653,067 34,210,845 59,543,962 86,778,228 115,852,994 168,712,455	5	37,194,996 45,368,416 71,676,560 91,964,279 117,398,001 170,704,475
Warrants on Common Exercise Price @ \$0.072	741,665		a.									16,317		72,683		99,383
Common	302,640,465	5	-	4,539,60	7	9,079,214		19,974,271		21,790,113		28,448,204		51,448,879		62,343,936
Options on Common Exercise Price @ \$0.015 Exercise Price @ \$0.030 Exercise Price @ \$0.066	350,000 1,227,125 552,500		۰ ب	1		5,250		17,850 44,177		19,950 51,539 3,315		27,650 78,536 15,470		54,250 171,798 57,460		66,850 215,974 77,350
Exercise Price @ \$0.072	3,092,715							-				68,040		303,086		414,424
Exercise Price @ \$0.094 Exercise Price @ \$0.170	312,500 3,990,167							-		-				23,750		35,000
Exercise Price @ \$0.206	703,195					-										143,646
	515,334,478	385,632,852	402,580,859	410,146,32	8	120,742,909		445,008,536	-	461,361,295	1	487,112,663		544,883,458	-	597,703,289
		Series C, C-1, C-2 Liq. Preference	Series A, B Liq. Preference	\$0.015 Options Exercise		3 Options kercise	\$0	.066 Options Exercise		072 Warrants / Options on common Ex.	\$0	.094 Options Exercise	s	0.170 Options Exercise	s	.206 Options Exercise
Inputs	-			10-			-		-				1		1	
Stock Price Now Volatility	\$ 378,000,000 55,0%	\$ 378,000,000 55.0%	\$ 378,000,000 55.0%	\$ 378,000,00	_	378,000,000 55.0%	S	378,000,000	\$	378,000,000 55.0%	5	378,000,000 55.0%	\$	378,000,000	5	378,000,000
Riskfree Rate - Annual	1.07%	1.07%	1.07%	1.07		1.07%	-	1.07%	-	1.07%	-	1.07%		1.07%		55.09
Exercise Price	\$ 0.00	\$ 385.632.852	\$ 402,580,859	\$ 410,146,32		420,742,909	S	445.008.536	5	461,361,295	5	487,112,663	e	544,883,458	2	597,703,289
Time To Maturity - Years	4.00	4.00	4.00	4.0		4.00		4.00		4.00	-	4.00	Ľ	4.00		4.00
Outputs																
d1	37.38	0.57	0.53	0.5	1	0.49		0.44		0.41		0.36		0.26		0.17
d2	36.28	(0.53)	(0.57)	(0.5	9)	(0.61)		(0.66)		(0.69)		(0.74)		(0.84)		(0.93
N(d1)	1.000	0.716	0.702	0.6	97	0.688		0,670		0.658		0.640		0.601		0.56
N(d2)	1.000	0.298	0.285	0.2	79	0.271		0.255		0.244		0.229		D.199		0.17
Call Price (Vc)	\$ 378,000,000	\$ 160,373,387	\$ 155,639,607	\$ 153,595,41	2 5	150,800,657	S	144,685,429	5	140,776,792	s	134,938,116	S	123,102,911	5	113,598,649
-d1	-37 383	-0.571	-0.531	-0.5	15	-0.491		-0.440		-0,408		-0.358	3	-0.256		-0.17
-d2	-36.283	0,529	0.569	0.5	85	0.609		0.660		0.692		0.742		0,844		0.92
N(-d1)	0.000	0.284	0.298	0.3	03	0.312		0.330		0.342		0.360		0,399		0.43
N(-d2)	0.000	0.702	0.715	0.7	21	0.729		0.745		0.756		0.771		0.801		0.82
Put Price (P _p)	S 0	\$ 151,923,279	\$ 163,430,682	5 168,636,43	6 5	175,996,328	s	193,135,721	s	204,896,844	s	223,735,566	\$	267,261,803	s	308,374,502
		A REAL PROPERTY OF A REAL PROPER		111 I I I I I I I I I I I I I I I I I I												



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 109 of 156

Part P Part P<	s of February 7, 2014									NAV Equity Alle	scalion 2/7/14 - Step	
HPURE 5.C 1.02 BURK APR (PRIM RE1 Options FRA1 Options Option (PRIM) FRA1 Options FRA1 Opti	of restort 1, 2019						T. 51				USI	
gin at a generic mix wat at a function 9 mat according (1) (2) (2) (2) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2							Options on				All Classes	
Sister of electric 115,027,027 115,028,027 112,028,028 112,028,028 112,028,028 112,028,028 112,028,028 112,028,028 112,028,028 112,028,028 112,028,028 112,028,028 112,028,028 112,028,028 112,028,028 112,028,028 112,028,028 112,028,028 112,028,028 <td>igh call option</td> <td></td>	igh call option											
Det Weine Software 1 1/12/2010 1/12/2010 1/12/2010 1/12/2010 1/12/2010 1/12/2010 1/12/2010 1/12/2010 1/12/2010 1/12/2010 1/12/2010 1/12/2010 1/12/2010 1/12/20		160,373,387	155,639,507								a 115,559,045	
Sheet A 6 15130 Been A 16 15100 Been A 16 151000 Been A 16 151000 Been A 16 151000 Been A 16 151000 Been A 16 1510000 Been A 16 1510000 Been A 16 15100	otal Value to Allocate	\$ 217,626,613	5 4,733,780	\$ 2,044,195	\$ 2,794,755	\$ 6,114,228	\$ 3,909,638	\$ 5,838,675	\$ 11,835,205	\$ 9,504,262	\$ 113,598,649	
series 18 30:560 St. 102,000	referred Share Classes											
Bare C (8) 25.45 Bare C (8) 25.05 Bare C (8) 25.05 Bare C (8) 25.05 Bare C (8) 25.05 Bare C (8) 27.05 Bare C		× .									46,320,045	
Bether C B 3100 73.535.00 23.175.00		33 217 403	10,000,000								54,162,965	
Beres C-1 (2) 11500 113,030,400 1,200,010 7,000,012 <td></td> <td>25,175,001</td>											25,175,001	
Jumphan Jumphan <t< td=""><td></td><td></td><td>× .</td><td></td><td></td><td></td><td></td><td></td><td>7,500,032</td><td>7,500,032</td><td>7,500,033</td></t<>			× .						7,500,032	7,500,032	7,500,033	
Bance Prior @ 5072 1		164,389,966		9,669,998	9,669,998	9,669,998	9,669,998	9,669,998	9,669,998	9,669,998	9,669,998	
Spinner S22,64,461 S22,64,461 S22,64,465 S22,64,455 S22,640,455								741,665	741,665	741,665	741,66	
Dates 26 00000000000000000000000000000000000	Common		- ÷.	302 640 465	302,640,465	302 640 465	302 640 465				302,640,465	
Extract Price 8 1005 1 1 250,000 350,000 <				And which		the second second	and a lation	And an	00210-101-100	1000,040,400	2021040140	
Emersite Price B 0008 - - 525.00 500.200 <				÷	350,000	350,000	350,000	350,000	350,000	350,000	350,000	
Exercise Price @ 50.072 Exercise Price @ 50.064 3.002.115				-	* T	1,227,125					1,227,125	
Barrisk Prior B 90 094 Exercise Prior B 90 097 Exercise						e	552,500				552,50	
Bartice Price Bio 1070 Status Price Bio 1070		5						3,092,715			3,092,71	
Sense Proc # 10.06 100 <th col<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td>3,990,157</td></th>	<td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>3,990,157</td>							-				3,990,157
Distribution Processing Distribution Processing <thdistrip proces="" processi<="" processing="" td=""><td>Exercise Price @ \$0.206</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>703,19</td></thdistrip>	Exercise Price @ \$0.206										703,19	
Defined Status Classes OCS A10% D 2% D 2% <thd 2%<="" th=""> D 2% <thd 2%<="" <="" td=""><td>Netribution Percentage</td><td>385,632,852</td><td>15,948,007</td><td>504,364,611</td><td>504,714,611</td><td>505,941,736</td><td>506,494,236</td><td>510,328,616</td><td>510,641,116</td><td>514,631,263</td><td>515,334,478</td></thd></thd>	Netribution Percentage	385,632,852	15,948,007	504,364,611	504,714,611	505,941,736	506,494,236	510,328,616	510,641,116	514,631,263	515,334,478	
Series Ag 50 150 0.05 41.0% 0.2% 0.2% 0.7% 0.7% 0.9% 0.9% 1.0% 0.0% <th0.0%< th=""> 0.0% 0.0%</th0.0%<>												
Semic Q 20564 8 4% 0 0% 11 7% 11 7% 11 6% 11.9%	Series A @ \$0.150										9.0	
Barres C-1@ 31:00 19 5% 0.0% 5.0% 5.0% 5.0% 5.0% 5.0% 5.0% 5.0% 5.0% 5.0% 5.0% 5.0% 5.0% 5.0% 5.0% 5.0% 5.0% 5.0% 5.0% 5.5% 1.5% <th1.5%< th=""> 1.5% 1.5%<td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>10.5</td></th1.5%<>											10.5	
Barline C-1 @ 515:00 20 24 0 04 1.5% <th1.5%<< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>114</td></th1.5%<<>											114	
Varyanta Caminal Varyanta Caminal Varyanta Caminal Varyanta Caminal Common 0.0%	Series C-1 @ \$15.00										1.5	
Demonsphire @ 10/72 0.0% 0.0% 0.0% 0.0% 0.0% 0.1% 0.1% Demonson 0.0%<	Series C-2 @ \$17 00	42.6%	D.0%	1.9%	1,9%	1.9%	1.9%	1.5%	1.9%	1.9%	1.9	
Cammon 0.0% 0.0% 0.0% 50.0% 0.0% 59.8% 59.8% 59.3% 59.8% 59.3% 59.8% 59.3% 59.8% 59.3% 59.8% 59.3% 59.8% 59.3% 59.3% 59.8% 59.3% 50.3% 0.0% <th< td=""><td></td><td>0.0%</td><td>0.0%</td><td>0.0%</td><td>0.04</td><td>0.0%</td><td>0.00</td><td></td><td></td><td></td><td></td></th<>		0.0%	0.0%	0.0%	0.04	0.0%	0.00					
Decision Common Decision Common Decision Common Decision Common Survice Price 8 20:000 D.0% D.0% </td <td></td> <td>0.1</td>											0.1	
Exercise Price g 50 015 0.0% 0.0% 0.1% 0.0% 0.		U.U.A	0.0.4	GO D a	00.0 %	08.0 M	00.0%	20.00	20.3%	20.016	36.0	
Exercise Price § 50.000 0.0% 0.0% 0.0% 0.2% 0.0% 0.		0.0%	0.0%	0.0%	0.1%	0.1%	0.1%	0.1%	0.3%	0.1%	0.1	
Exercise Price @ \$10072 0.0% 0.										0.2%	0.2	
Exercise Price 8 50194 0.0% 0.0											0.1	
Exercise Price § 50 707 0.0% 0.												
Exercise Price @ \$0266 0.0% 0.0	Exercise Price @ \$0.170										0.8	
Albezition of Value Predering Shate Classes Predering Shate Classes Predering Shate Classes Predering Shate Classes State A (8 30 150) S S 1,940,661 S 1157,736 S 256,488 S 559,771 S 357,545 S 529,046 \$ 1,073,567 S 855,443 \$ 10,210 Series C (2) 504 12,745,786 2,792,119 215,223 2299,016 634,645,51 416,085 619,679 1,255,843 1,000,287 11,853 Series C 1 (2) 5100 42,621,500 102,035 132,617 304,226 143,452 246,027 533,485 448,494 5548 Series C 2 (2) 517,00 92,771,224 39,193 53,546 116,660 74,643 110,635 224,123 178,588 2,131 Dations on Comman 1,225,605 1,675,610 3,657,553 2,366,087 3,462,213 7,014,343 5,589,195 68,713 Dations on Comman 1,225,605 1,675,610 3,657,553 2,365,067 3,462,213 7,014,343 5,589,1	Exercise Price @ \$0 206			0.0%							0.1	
Underset Diate Classes Underset Diate Classes<	Allocation of Value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0	
Stene b @ 30.1646 2.793.119 219.923 229.916 654.551 418.085 619.679 1.255.343 1.000.267 11.939 Series C @ 30.564 18.745.766 238.705 328.125 711.750 454.620 677.6351 1,365.044 1.097.669 12.982 Series C 1 @ 31.00 42.621.500 102.035 139.401 304.286 194.302 280.021 56.445 486,924 5.468 484.924 5.468 484.924 5.468 484.924 5.468 484.924 5.468 484.926 77.823 85.008 17.3629 138.511 1.633 Series C 2 @ 517.00 92.4771.524 30.193 53.646 17.669 77.190 13.667 163.255 7.014.343 5.589 (195 68.713 Somman 1.228.605 1.675.810 3.657.363 2.336.687 3.462.513 7.014.343 5.589 (195 68.713 Soling is in Comman 1.228.605 1.675.810 3.657.363 2.336.687 3.462.513 7.014.343 5.589 (196 7.7140 7.7140		7										
Series C @ 50.564 16,745,785 238,705 328,125 711,750 44,620 673,851 1,950,644 1,067,699 12,869 Series C 1 @ 515.00 63,468,104		5 .										
Series C-f @ \$15.00 42,621,500 - 102,035 194,401 304,236 194,326 286,027 \$93,485 44,994 5,4693 Series C-f @ \$15.00 63,485,104 - 30,386 41,530 90,637 57,893 85,608 173,828 136,511 1,653 Series C-f @ \$10,07 92,771,224 - 30,138 53,546 116,860 77,484 110,857 24,825 136,511 1,563 Series C-g @ \$10,072 - - - - 8,485 17,190 13,697 163 Series C-g @ \$10,072 - - 1,928 4,230 2,702 4,004 8,112 6,484 77 Series Price @ \$0,015 - - - 1,938 4,230 2,702 4,004 8,112 6,484 77 Exercise Price @ \$0,072 - - - 4,265 6,321 12,805 10,204 123 Exercise Price @ \$0,074 - - - 4,265 6,321 12		10 745 700	2.793.119								11,939,50	
Series C-1 @ \$15.00 \$3,483,104						and the second sec						
Series C-2 @ \$17.00 \$2,771,224 39,193 53,546 116,660 74,642 110,635 224,123 176,586 2,131 Marrania no Comman Exercise Price @ 50,072 .											1,653,28	
Exercise Price @ \$0072	Series C-2 @ \$17.00	92,771,224		39,193	53,546	116,660	74,643	110,635			2,131,62	
Common 1,226,605 1,675,610 3,657,363 2,336,067 3,462,513 7,014,343 5,589,195 66,713 Exercise Price @ 50,030 1,938 4,230 2,702 4,004 8,112 6,464 77 Exercise Price @ 50,030 1,938 4,230 3,472 14,040 28,441 22,663 270 Exercise Price @ 50,030 1 1 1,938 4,230 3,472 14,040 28,441 22,663 270 Exercise Price @ 50,004 1								10,162	100	10000m		
Series A @ 50 150 4733780 5 2,044,195 5 2,794,755 5 6,114,228 5 3,909,838 5 5,838,675 5 11,035,205 5 9,504,262 1 11,338 Series A @ 50 150 45,350,015 5 15,971,798 5 0,34 5 5,838,675 5 11,035,205 5 9,504,262 1 13,388 Prefered Share Classe Humber of Shares Total Value Marketable 7 4,62 5 5,838,675 5 11,035,205 5 9,504,262 1 13,388 Series A @ 50 150 46,320,045 5 15,971,798 5 0,34 5 5,838,675 5 11,035,205 5 9,504,262 1 13,388 Series A @ 50 150 46,320,045 5 15,971,798 5 0,34 5 5 5 11,035,205 5 9,504,262 1 13,388 Series C (20, 5546 55,050,0011 0,35 5 5,838,675 5 11,035		- D									163,49	
Exercise Price @ 30.015 1,938 4,230 2,702 4,004 8,112 6,464 77 Exercise Price @ 30.030 14,030 9,472 14,040 28,441 22,663 2702 Exercise Price @ 30.066 1 1 1,838 9,472 14,040 28,441 22,663 2702 Exercise Price @ 30.072 1 1 1 1,838 3,717 666 Exercise Price @ 30.073 1 1 1 1 1 1 1 Exercise Price @ 30.072 1 1 1 1 1 1 1 1 1 Exercise Price @ 30.070 1				1,226,605	1,675,810	3,657,363	2,336,087	3,462,513	7,014,343	5,589,195	66,713,07	
Exercise Price @ 30 0030 14,830 9,472 14,040 28,441 22,683 270 Exercise Price @ 30 006 4,285 6,321 12,805 10,004 171 681 Exercise Price @ 30 004 35,384 71,680 57,117 681 7243 5,771 681 Exercise Price @ 30 004 35,384 71,680 57,117 681 572 12,805 10,802 57,117 681 Exercise Price @ 30 026 5 2,17,626,813 5 47,237,800 5 2,794,755 3 6,114,228 5 3,909,638 5 5,838,675 5 11,035,205 5 9,504,262 8 13,588 Prefered Share Class Number of Shares Total Value Marketable Prefered Share Class Number of Shares 15,200,011 0.35 5 5,000,011 0.35 5 5,000,02 5,59,59,672 6,021 5,759,001 50,247,440 200 5 5,000,02 5,759,992 8,77 Series A @ 30,150 45,300,02 50,59,9992 8,77 0.62					1 978	4 290	2 702	4 004	8 112	E 454	77,15	
Exercise Price @ 30 066 4,265 6,321 12,805 10,204 121 Exercise Price @ 30 072 35,384 71,680 57,117 680 Exercise Price @ 30 070 7,243 5,7711 660 Exercise Price @ 30 070 7,243 5,7711 660 Exercise Price @ 30 070 7,243 5,7117 690 Stare Class 1 1 57 5 5,114,228 5 3,909,638 5 5,838,675 5 11,835,205 \$ 9,504,282 \$ 113,598 Series A @ 50 150 46,320,045 \$ 15,971,798 \$ 0,34 5 5,838,675 \$ 11,835,205 \$ 9,504,282 \$ 113,598 Series A @ 50 150 46,320,045 \$ 15,971,798 \$ 0,34 \$					-				28,441		270,50	
Exercise Price @ 50 094 Exercise Price @ 50 094 Exercise Price @ 50 094 Serces @ 50 704 Share Class Mumber of Shares Share Classes Series A @ 50 150 Series A @ 50 564 Series A @ 50 150 Series A @ 50 564 Series C					÷		4,265				121,79	
Exercise Price @ 50 170 Exercise Price @ 50 200 73,691 570 3 217,628,613 5 4,733,780 5 2,044,195 5 3,909,638 5 5,838,675 5 11,835,205 5 9,504,262 1 13,589 Part Share Proferred Share Classe Number of Shares Total Value Marketable Series A @ 50 150 46,320,045 5 15,971,795 5 0,34 Series B @ 50 150 46,320,045 5 15,971,795 5 0,34 Series B @ 50 150 45,350,0011 0,35 0,621 5 5 15,971,795 5 0,34 Series C 1g \$35,000 25,175,001 50,247,440 200 5 5 5,789,992 8.77 Series C -1 g \$35,000 7,500,032 65,769,992 8.77 5 9.80 8 5		5	-	-	5	1		35,384		57,117	681,74	
155 Share Class 155 Share Class 11,835,205 155 Share Class Number of Shares Total Value 155 Per Share Share Class Number of Shares Total Value 155 Share Class Number of Shares Total Value Nare Class Share Class Share Class Share Share Classes Share Class Number of Shares Total Value Per Share Series A @ 50 150 45,30,0045 5 15,971,798 0.34 Series A @ 50 1540 5,656,427 O.62 Series C-1 @ \$3,00 2,575,001 50,247,440 2,00 Series C-1 @ \$15,00 7,600,032 6,769,4992 A 77 Series C-1 @ \$15,00 7,600,032 6,769,9992 A 77									1,293		879,57	
Share Class Number of Shares Total Value Marketable Preferred Share Classes Marketable Marketable Series A @ 50 150 46,320,045 \$ 15,971,796 \$ 0,34 Series B @ 50 1646 54,162,965 19,200,011 0.35 Series C @ 50 564 54,162,965 19,200,011 0.35 Series C @ 50 564 55,864,27 0.62 50,247,440 2 00 Series C -1 @ \$15,00 7,500,032 65,759,992 8 77 Series C -1 @ \$15,00 7,600,032 65,759,992 8 77	Exercise Price @ \$0.206	-	-	-	-	-					155,01	
Share Classes Humber of Shares Total Value Marketable Prefered Share Classes Prefered Share Classes Non-Share Classes Series A © 50 150 45,320,045 \$ 15,971,798 0.34 Series A © 50 150 54,162,965 19,200,011 0.35 Series A © 30 564 54,162,965 19,200,011 0.35 Series C-1 © \$3.00 25,175,001 50,247,440 2.00 Series C-1 © \$15,00 7,600,032 65,739,992 8.77 Series C-1 © \$15,00 9,668,956 56,700,432 5.9,81		\$ 217,626,613	5 4,733,780	The second secon	5 2,794,755	5 6,114,228	\$ 3,909,638	\$ 5,838,675	\$ 11,835,205	\$ 9,504,262	\$ 113,598,64	
Preferred Share Classes Series A @ 50 150 45,320,045 \$ 15,971,796 \$ 0,34 Series B @ 50 1846 54,162,965 19,200,011 0.35 Series C @ 30,564 58,696,105 36,586,427 0.62 Series C -1 @ \$13,00 25,175,001 50,247,440 200 Series C -1 @ \$15,00 7,500,032 65,759,992 8.77 Series C -1 @ \$15,00 3,669,595 \$ 8,70,432 \$ 9,90	Share Class	Number of Shares	Total Value									
Series A @ 50 150 46,320,045 \$ 15,971,798 \$ 0.34 Series B @ 50.1846 54,162,095 19,200,011 0.35 Series C @ 50.564 54,162,095 19,200,011 0.35 Series C = 1g \$30.504 55,169,105 50,247,440 2.00 Series C - 1g \$31.500 7,500,032 65,769,992 8.77 Series C - 1g \$15,00 3,669,595 58,704,432 5.9,80												
Seness B @ 50 1646 54,162,265 19,200,011 0.35 Seness C @ 50 564 55,869,105 35,686,427 0.62 Seness C-1 @ \$3,000 25,175,001 50,247,440 2.00 Seness C-1 @ \$3,000 7,500,032 65,759,9992 8.77 Seness C-1 @ \$3,000 7,500,032 65,759,9992 8.77		45,320,045	\$ 15,971,798	5 0.34								
Senes C-1 (2) \$15,00 25,175,001 50,247,440 2.00 Senes C-1 (2) \$15,00 7,500,032 65,769,992 8.77 Settis C-2 (2) \$15,00 3,669,555 \$6,700,432 \$5.90	Series 8 @ \$0,1846	54,162,965	19,200,011	0.35								
Series C-1 (2) \$15,00 7,500,032 65,759,992 8,77 Series C-2 (2) \$17,00 9,669,595 \$ 95,700,432 \$ 9,90												
Setles C-2 @ 517.00 9,669,995 \$ 95,700,432 \$ 9.90												
Textricite Dir Laumand 1 41,665 202,852 0.27	Warrants on Common											



aluation of Theranos, Inc. Is of February 7, 2014									DCF Equity Allo	ocation 2/7/14 - Step (USI
Break Point Calculation				\$0.015	\$0.030	\$0,066	\$0.072	\$0.094	\$0.170	\$0.206
Share Class	Number of Shares	Series C, C-1, C-2 Lig. Preference	Series A, B Liq. Preference	\$0.015 Options Exercise	\$0.03 Options Exercise	\$0.066 Options Exercise	\$0.072 Warrants / Options on Common Ex.	\$0.094 Options Exercise	\$0.170 Options Exercise	\$0.206 Options Exercise
Preferred Share Classes	Constant I						C			
Series A @ \$0.150	46,320,045	8	\$ 6,948.007	\$ 7,642,807	\$ 9,032,409	\$ 12,089,532	\$ 15,424,575	\$ 19,778,659	\$ 27,653,067	\$ 37,194,996
Series 8 @ \$0.1846	54,162,965		10,000,000	10,812,444	12,437,333	16,012,089	19,911,822	25,003,141	34,210,845	45,368,416
Series C @ \$0.564	58,896,105	33,217,403	33,217,403	34,100,845	35,867,728	39,754,871	43,995,390	49,531,624	59,543,962	71,676,560
Series C-1 @ \$3.00	25,175,001	75,525,003	75,525,003	75,902,628	76,657,878	78,319,428	80,132,028	82,498,478	86,778,228	91,964,279
Series C-1 @ \$15.00	7,500,032	112,500,480	112,500,480	112,612,980	112,837,981	113,332,984	113,872,986	114,577,989	115,852,994	117,398,001
Series C-2 @ \$17.00	9,669,998	164.389,966	164,389,966	164,535,016	164,825,116	165,463,336	166,159,576	167,068,555	168,712,455	170,704,475
Warrants on Common										
Exercise Price @ \$0.072	741,665		(b)				*	16,317	72,683	99,383
Common	302,640,465			4,539,607	9,079,214	19,974,271	21,790,113	28,448,204	51,448,879	62,343,936
Options on Common										
Exercise Price @ \$0.015	350,000	1.1			5,250	17,850	19,950	27,650	54,250	66,850
Exercise Price @ \$0.030	1,227,125				-	44,177	51,539	78,536	171,798	215,974
Exercise Price @ \$0.066	552,500			2	-		3,315	15,470	57,460	77,350
Exercise Price @ \$0.072	3,092,715	1		1				68,040	303.086	414,424
Exercise Price @ \$0.094	312,500			3				00,010	23,750	35,000
Exercise Price @ \$0.170	3,990,167						11		20,700	143,646
Exercise Price @ \$0.206	703,195	20								143,040
	515,334,478	385,632,852	402,580,859	410,146,328	420,742,909	445,008,536	461,361,295	487,112,663	544,883,458	597,703,289
		Series C, C-1, C-2 Liq. Preference	Series A, B Liq. Preference	\$0.015 Options Exercise	\$0.03 Options Exercise	\$0.056 Options Exercise	\$0.072 Warrants / Options on Common Ex.	\$0.094 Options Exercise	\$0.170 Options Exercise	\$0.206 Options Exercise
Inputs				1						
Stock Price Now	\$ 431,000,000	\$ 431,000,000	\$ 431,000,000	\$ 431,000,000	\$ 431,000,000	\$ 431,000,000	\$ 431,000,000	\$ 431,000,000	\$ 431,000,000	\$ 431,000,000
Volatility	55.0%	55.0%	55.0%	55.0%	55.0%	55.0%	55.0%	55.0%	55.0%	55.0%
Riskfree Rate - Annual	1.07%	1.07%	1.07%	1.07%	1.07%	1.07%	1.07%	1.07%	1.07%	1.079
Exercise Price	S 0.00	\$ 385,632,852	\$ 402,580,859	\$ 410,146,328	\$ 420,742,909	\$ 445,008,536	\$ 461,361,295	\$ 487.112.663	\$ 544,883,458	\$ 597,703,289
Time To Maturity - Years	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
Outputs										
d1	37.50	0.69	0.65	0.63	0.61	0.56	0.53	0.48	0.38	0.29
d2	36.40	(0.41)	(0.45	(0.47)	(0.49)	(0.54)	(0.57)	(0.62)	(0.72)	(0.81
N(d1)	1.000	0.755	0.742		0.729	0.712	0.701	0.683	0.646	0.61
N(d2)	1.000	0.341	0.327	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.312	0.294	0.283	0.267	0 234	0.20
Call Price (V _c)	\$ 431,000,000	\$ 199,382,497	\$ 193,963,436	\$ 191,617,587	\$ 188,404,768	\$ 181,352,863	5 176,826,793	\$ 170,042,554	\$ 156,196,002	\$ 144,980,775
	-37.502	-0.690	-0.65	-0.634	-0.611	-0.560	-0.527	-0.477	-0.376	-0.29
-d1	-36,402	0.410	0.449		0.489	0.540	0.573	0.623	0.724	-0.29
-d1	-30,402	0.245	0.258		0.271	0.288	0.299	0.317	0.724	0.38
-d2		0.240	0.250					- 40 (· · ·)	- A.I.P. 27	110-11
-d2 N(-d1)		0.000	0.07	0.070	0.000					
-d2	0.000	0.659	0.673 \$ 148,754,512		0.688 \$ 160.600.439	0.706 \$ 176.802.154	0.717 \$ 187.946.845	0.733 \$ 205.840.004	0.766 S 247.354.895	0.79 \$ 286.756.628
-d2 N(-d1) N(-d2)		the second s		\$ 153,658,611			and the second second second		0.766 \$ 247,354,895	\$ 286,756,62



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 111 of 156

5 v. Elizabeth Holmes aluation of Theranos, Inc. s of February 7, 2014									DCF Equily Allo	Exhibit M cation 2/7/14 - Step (USI
ligh call oplion ess low call oplion	Series C, C-1, C-2 Lig. Preference \$ 431,000,000 199,382,497	Series A, B Liq. Preference \$ 199,362,497 193,963,436	\$0.016 Options Exercise 5 193,963,436 191,617,587	\$0,03 Options Exercise \$ 191,617,587 188,404,788	\$0,055 Options Exercise \$ 168,404,768 161,352,863	\$0.072 Warrants / Options on Common Ex. 5 181,352,863 176,826,793	50.094 Options Exercise 5 176,826,793 170,042,554	\$0.178 Oplians Exercise \$ 170,042,554 156,196,002	\$0,206 Options Exercise \$ 156,196,002 144,980,775	All Classes Participate \$ 144,980,775
otal Value to Allocate	\$ 231,617,503	\$ 5,419,061	5 2,345,849	\$ 3,212,819	\$ 7,051,905	\$ 4,526,070	5 6,784,239	5 13,846,551	\$ 11,215,227	\$ 144,950,775
referred Share Classes		12.2		Lange Lange			in the second	Sata	The Second	
Series A @ \$0 150 Series B @ \$0.1846		6,948,007 10,000,000	46.320,045	46,320,045 54,162,965	45,320,045 54,162,965	46,320,045 54,162,965	46,320,045	46,320,045 54,162,965	46,320,045 54,162,965	46,320,04 54,152,96
Series C @ \$0.564	33,217,403	- Construction	58 896,105	58,896,105	58,896,105	58,896,105	58,896,105	55,696,105	58,896,105	58,895,10
Series C-1 @ \$3.00	75,525,003		25,175,001	25,175,001	25,175,001	25,175,001	25,175,001	25,175,001	25,175,001	25,175,00
Series C-1 @ \$15.00 Series C-2 @ \$17.00	112,500,480 164,389,966		7 500,032 9,659,998	7,500,032	7,500,032	7,500,032 9,659,998	7,500,032	7,500,032 9,569,998	7,500,032 9,869,998	7,500,03
Variants on Common Exercise Price @ \$0.072				- Marcao	0.0300	an integ				
and the second se							741,665	741,665	741,665	741,66
Common			302,640,465	302,640,465	302,640,465	302,640,465	302,640,465	302,640,465	302,640,465	302,640,46
Exercise Price @ \$0.015				350,000	350,000	350,000	350,000	350,000	350,000	350,00
Exercise Price @ \$0.030		-			1,227,125	1,227,125	1.227,125	1,227,125	1,227,125	1,227,12
Exercise Price @ \$0,066	-	~	× .	~		552,500	552,500	552,500	552,500	552,500
Exercise Price @ 50 072		~			~	1. P. 1	3,092,715	3,092,715	3,092,715	3,092,715
Exercise Price @ \$0.094 Exercise Price @ \$0.170		-						312,500	312,500 3,990,167	312,500
Exercise Price @ \$0.206							-		2,290,107	703,19
Name and Address of the Address of t	385,632,852	16,948,007	504,364,611	504,714,611	505,941,738	506,494,236	510,328,616	510,641,116	514,631,283	515,334,478
Distribution Percentage Preferred Share Classes	-									
Series A @ \$0 150	0.0%	41 0%	B.2%	9.2%	9.2%	9.1%	5.1%	9.1%	9.0%	90
Series B @ \$0.1846	0.0%	59.0%	10.7%	10.7%	10.7%	10.7%	10.6%	10.6%	10.5%	10.5
Series C @ 50.564	8,6%	0.0%	11.7%	11.7%	11.6%	11.6%	11.5%	11.5%	11 4%	11.4
Series C-1 @ \$3.00 Series C-1 @ \$15.00	19.6% 29.2%	0.0%	5.0%	5 DW 1.5%	5.0%	5,0%	4 9%	4 9%	4.9%	4.9
Series C-2 @ \$17.00	42.8%	0.0%	1.9%	1.9%	19%	19%	1.9%	1.9%	1.9%	19
Variants on Common Exercise Price @ \$0.072	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	D 1%	0.1%	0.1%	0.1
Common	0.0%	0.0%	60.0%	60.0%	59.8%	59.8%	59.3%	59 3%	58.6%	58.7
Oplions on Common										
Exercise Price @ \$0.015	0.0%	0.0%	0.0%	0.1%	0.1%	0.1%	0 1%	D.1%	0.1%	D.1
Exercise Price @ \$0.030	0.0%	0.0%	0.0%	0,0%	0.2%	0.2%	0.2%	0.2%	0.2%	DZ
Exercise Price @ \$0.066 Exercise Price @ \$0.072	0.0%	0.0%	0.0%	0.0%	0.0%		0 1%	0.1%	0.1%	0,1
Exercise Price @ \$0.094	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.6%	0.6%	0.6%	0.6
Exercise Price @ \$0.170	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.8%	0.6
Exercise Price @ \$0 206	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0,0%	0.1
Allocation of Value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100,0%	100.0%	100.0
Preferred Share Classes	-									
Series A @ 30 150	\$ -	\$ 2,221,599	3 215,439	\$ 294,856	\$ 645,617	5 413,919	5 615,772	5 1,256,015	\$ 1,009,441	\$ 13,031,37
Series B @ \$0,1846		3,197,462	251,917	344,761	754,933	484,004	720,035	1,468,684	1,180,360	15,237,84
Series C @ \$0.564 Series C-1 @ \$3.00	19,950,925 45,361,572		273,932 117,091	374,910 160,254	820,904 350,894	528,300 224,966	782,957 334,673	1,597,028 682,646	1,283,508	16,569,43
Series C-1 @ \$15.00	67,569,659	- ÷	34,683	47.742	104,537	67.021	99,704	203,371	548,632 163,446	7,082,56
Series C-2 @ \$17.00	98,735,347		44,976	61,555	134,782	06,412	126,552	262.212	210,736	2,720,49
Warrants on Common										
Exercise Price @ 50.072			1.100				9,860	20,111	15,163	208,65
Common		-	1.407,611	1,926,493	4,218,256	2,704,418	4,023,261	8,205,403	6,595,366	85,142,85
Exercise Price @ \$0,015				2,228	4,878	3,126	4,653	9,491	7,827	98,45
Exercise Price @ 50 030				6,620	17.104	10,956	16,313	33,275	26,742	345,23
Exercise Price @ 50 066						4,937	7,345	14,982	12,040	155,43
Exercise Price @ \$0.072	1.0	-				· · ·	61 114	83,862	67,399	870,08
Exercise Price @ \$0.094						1		8,474	6,810	87,91
Exercise Price @ \$0.170 Exercise Price @ \$0.205		1				-			85,957	1,122,55
and a state of the	\$ 231,617,503	\$ 5,419,061	\$ 2,345,549	5 3,212,819	5 7,051,905	\$ 4,528,070	5 6,784,239	5 13,546,551	5 11,215,227	\$ 144,980,77
	N		Per Share							
Share Class Preferred Share Classes	Number of Shares	Total Value	Marketable							
	10 305 515	4 10 704 001	5 0.43							
Series A @ \$0 150 Series B @ \$0 1846	46,320,045 54,162,965	\$ 19,704,031 23,640,024	5 0.43							
Series C @ \$0,564	58,896,105	42,179,901	0.72							
Series C-1 @ \$3.00	25,175,001	54,863,296	2 18							
Selles C-1 @ \$15.00	7,500,032	70,400,373	9.39	ė						
Series C-2 @ \$17.00	9,669,998	\$ 102,385,064	1 10.59	1. C						
Warrents on Common										



Aluation of Theranos, Inc. As of December 31, 2014								_					_		NAV Equity Alloc	ation	12/31/14 - Stej (US
Break Point Calculation					\$0.015	-	\$0.030	1	\$0.066		\$0.072		\$0.094	E E	\$0.170	1	\$0.206
Share Class	Number of Shares	Series C, C-1, C-2 Liq. Preference	Series A, B Liq. Preference	\$0	0.015 Options Exercise	\$0	.03 Options Exercise	\$0	0.056 Options Exercise	(072 Warrants / Options on Common Ex.	\$0	.094 Options Exercise	\$0	.170 Options Exercise	so	.206 Options Exercise
Preferred Share Classes			The second second			<u>.</u>							24.76.75	1		-	
Series A @ \$0,150	46,320,045	\$ -	5 6,948,007	5	11	s	9,032,409	S	12,089,532	\$	15,424,575	5	19,778,659	5	27,653,067	s	37, 194, 99
Series B @ \$0.1846	54,134,965		9,994,830		10,806,855		12,430,904		16,003,811		19,901,529		24,990,216		34,193,160		45,344,96
Series C @ \$0.564	58,896,105	33,217,403	33,217,403		34,100,845		35,867,728		39,754,871		43,995,390		49,531,624		59,543,962		71,676,56
Series C-1 @ \$3.00	25,175,001	75,525,003	75,525,003		75,902,628		76,657,878		78,319,428		80,132,028		82,498,478		86,778,228		91,964,27
Series C-1 @ \$15.00	7,500,032	112,500,480	112,500,480		112,612,980		112,837,981		113,332,984		113,872,986		114,577,989		115,852,994		117.398.00
Series C-2 @ \$17.00	32,808,227	557,739,859	557,739,859		558,231,982		559,216,229		561,381,572		563,743,765		566,827,738		572,405,136		579,163,63
Warrants on Common																	
Exercise Price @ \$0.072	741,665				the second				5		1.0		16,317		72,683		99,38
Common	302,965,725				4,544,486		9,088,972		19,995,738		21,813,532		28,478,778		51,504,173		62,410,93
Options on Common																	
Exercise Price @ \$0.015	350,000	11 ÷ 11	-		-		5,250		17,850		19,950		27,650		54,250		66,85
Exercise Price @ \$0.030	1,170,875		9		-				42,152		49,177		74,936		163,923		206,07
Exercise Price @ \$0.066	547,500	1.21	4				-		2		3,285		15,330		56,940		76.65
Exercise Price @ \$0.072	2,579,175	1.01											56,742		252,759		345,60
Exercise Price @ \$0.094	312,500	1.0											50,142		23,750		35,00
Exercise Price @ \$0.170	3,972,457														23,150		143,00
Exercise Price @ \$0.206	606,365										2				2		143,00
	538,080,637	778,982,745	795,925,582		803,842,584	1	815,137,351		840,937,937		858,956,217	_	886,874,457	1	948,555,026	2	1,006,125,94
		Series C, C-1, C-2 Liq. Preference	Series A, B Liq. Preference	\$0	0.015 Options Exercise	\$0	0.03 Options Exercise	\$0	0.066 Options Exercise		072 Warrants / Options on Common Ex.	\$0	0.094 Options Exercise	\$0	.170 Options Exercise	\$0	.205 Options Exercise
Inputs						2		-		_		-		-			
Stock Price Now	\$ 827,000,000	\$ 827,000,000	\$ 827,000,000	S	827,000,000	\$	827,000,000	5	827,000,000	\$	827,000,000	S	827,000,000	ş	827,000,000	S	827,000,00
Volatility	53.0%	53.0%	53.0%	1	53.0%		53.0%	1.0	53.0%	16.00	53.0%	-	53.0%	1	53.0%		53.0
Riskfree Rate - Annual	1.38%	1,38%	1.38%	1.	1.38%	1	1.38%		1,38%		1,38%		1.38%	1	1,38%	1.1	1.38
Exercise Price	\$ 0.00	5 778,982,745	\$ 795,925,582	S	803,842,584	\$	815,137,351	5	840,937,937	s	858,956,217	s	885,874,457	\$	948,555,026	S	1,006,125,94
Time To Maturity - Years	4.00	4.00	4.00		4.00		4.00		4.00		4.00		4.00	1	4.00		4.0
Outputs																	
d1	39.50	0.64	0.62		0.61		0.60		0.57		0.55		0.52		0.45		0.4
d2	38.44	(0.42)	(0.44)		(0.45)		(0.46)		(0.49)		(0.51)		(0.54)		(0.61)		(0.6
N(d1)	1.000	0.738	0.732		0.729		0.724		0.714		0.708		0.697		0.675		0.6
					0.326								(797.70)		2010		1,17
N(d2)	1.000	0.337	0.329		the state of the state of the state	1	0.321	G	0.311	0.4	0.304	Q.,	0.293	1	0.272		0.2
Call Price (V _c)	\$ 827,000,000	\$ 362,434,456	\$ 357,095,687	5	354,641,163	5	351,182,763	S	343,468,924	s	338,230,551	5	330,345,757	s	313,865,295	s	299,558,35
-d1	-39.503	-0.638	-0.618	3	-0.609		-0,596		-0.566		-0.546		-0.516		-0.453		-0.3
10	-38.443	0.422	0.442	2	0.451		0.464		0.494		0.514		0,544		0.607		0.6
-d2	0.000	0.262	0.268		0.271		0.276		0,286		0.292		0.303		0.325		0.3
	0.000		1.5.7.93		0.674		0.679		0.689		0.696		0.707		0.728		0.7
N(-d1)	0.000	0.663	0.671														
	0,000 S -	0.663 \$ 272,730,055	0.671 \$ 283,427,430			S		s		s		5		s	and the second	S.	
N(-d1) N(-d2)		And the second second second			288,466,230	s	295,698,159	s	312,404,192	5	324,219,853	5	342,759,259	s	384,658,539	5	424,841,6



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 113 of 156

s of December 31, 2014									NAV Equily Alloca	lion 12/31/14 - Slep
						Section of the		_		(USI
	Series C, C-1, C-2	Berles A, B Lig.	\$0.016 Options	\$0.05 Options	10.005 Options	50,072 Warrants / Options on	\$0.084 Options	\$0.170 Options	\$0,206 Options	All Classes
and the states	Liq. Freference	Proference	Exercise	Exercise	Exercise	Common Ex.	Exercise	Exercise	Exercise	Participate
ligh call option ass low call option	\$ 827,000,000 362,434,456	\$ 362,434,456 357,095,687	\$ 357,095,687 354,641,163	5 354,641,163 351,182,763	5 351,182,763 343,468,924	\$ 343,468,924 338,230,551	\$ 338,230,551 330,345,757	\$ 330,345,757	3 313,865,295	\$ 299,558,358
folal Value to Allocate	\$ 464,565,544	\$ 5,338,769	\$ 2,454,524	\$ 3,458,400	\$ 7,713,839	\$ 5,238,373	5 7,884,794	313,865,295 \$ 16,480,462	299,558,358 \$ 14,306,937	\$ 299,558,358
referred Share Classes			A							
Beries A @ \$0 150		6,948,007	46,320,045	46,320,045	46,320,045	46,320,045	46,320,045	46,320,045	46,320,045	45,320,045
Series B @ \$0 1848	Sec. Sec.	9,994,830	54,134,965	54,134,965	54,134,985	54,134,965	54,134,965	54,134,965	54,134,965	54,134,965
Series C @ \$0.564	33,217,403		58,896,105	58,896,105	58,896,105	58,896,105	58,696,105	58,896,105	58,896,105	58,896,10
Series C-1 @ \$3.00 Series C-1 @ \$15.00	75,525,003		25,175,001 7,500,032	25,175,001 7,500,032	25,175,001 7,500,032	25,175,001 7,500,032	25,175,001 7,500,032	25,175,001	25,175,001	25,175,00
Series C-2 @ \$17.00	557,739,850	- C	32,608,227	32,608,227	32,808,227	32,808,227	32,606,227	7,500,032	7,500,032 32,808,227	7,500,03
Varrants on Common Exercise Price @ \$0.072										
			Vincou Co				741.665	741,665	741,665	741,66
Comimon	~	~	302,965,725	302,965,725	302,965,725	302,965,725	302,965,725	302,965,725	302,965,725	302,965,725
ptions on Common				a tracker				100.00		
Exercise Price @ \$0.015			1	350,000	350,000	350,000	350,000	350,000	350,000	350,000
Exercise Price @ \$0.030 Exercise Price @ \$0.066					1,170,875	1,170,875	1,170,875	1,170,875	1,170,875	1,170,87
Exercise Price @ \$0.072			-			547,500	547,500 2,579,175	547,500 2,579,175	547,500 2,579,175	547,500 2,579,175
Exercise Price @ \$0.094				-			*10101112	312.500	312,500	312,500
Exercise Price @ \$0 170		-	~				-		3,972,457	3,972,45
Exercise Price @ \$0.205										606,36
Notesting Barrations	778,982,745	16,942,837	527,800,100	528,150,100	529,320,975	529,868,475	533,189,315	533,501,815	537,474,272	538,080,63
Distribution Percentage Preferred Share Classes	-									
Series A @ \$0.150	0.0%	41.0%	8.8%	88%	8.8%	8.7%	8.7%	B 7%	86%	8,6
Selles B @ 50.1846	0.0%	59.0%	10.3%	10.2%	10 2%	10.2%	10,2%	10.1%	10.1%	10.1
Series C @ \$0.564	4.3%	0.0%	11.2%	11.2%	11.1%	11,1%	11.0%	11.0%	11.0%	10.9
Series C-1 @ \$3.00	9.7%	0.0%	4.8%	4.8%	4 8%	4 8%	4.7%	4.7%	4.7%	4.7
Series C-1 @ \$15.00 Series C-2 @ \$17.00	14.4% 71.6%	0.0%	1 4%	1.4% B.2%	6.2%	1 4%	1.4%	1.4%	1.4%	1.4 6.1
Warrants on Common										
Exercise Price @ \$0.072	0.0%	0.0%	0.0%	0 DW	57 2	0.0%	D 1%	0.1%	0.1%	0 1
Oplians on Common				19/00			00.04	20,010	200.4 (8	30.9
Exercise Price @ \$0.015	0.0%	0.0%	0.0%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1
Exercise Price @ \$0.030	0.0%	0.0%	0.0%	0.0%	0 2%	0.2%	0.2%	0.2%	0.2%	0.2
Exercise Price @ \$0.065	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.1%	0.1%	0.1
Exercise Price @ 50 072	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	0.5%	0.5%	0.5
Exercise Price @ \$0.094	0.0%	0.0%	0.0%	0.0%	D DW	0.0%	0.0%	0.1%	0.1%	0.1
Exercise Price @ \$0.170 Exercise Price @ \$0.206	0.0%	0.0%	0.0%	0.0%	D 0%	0.0%	0.0%	0.0%	0.7%	0.7
annenia (1911 6 ab das	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.04
Allocation of Value	_									
Preferred Share Classes		a and and	10 (Dia 101)	-	a marine	Terror Contest		and statute		
Series A @ \$0.150 Series B @ \$0.1846	4	\$ 2,189,350 3,149,419	5 215,410 251,754	\$ 303,310 354,483	\$ 675,026 788,913	\$ 457,928 535,188	\$ 584,960 800,547	5 1,430,877	\$ 1,232,985	5 25,787,13
Senes C @ \$0 564	19,810,016	2,143,415	273,895	385,660	858,298	582,257	870,955	1,872,289	1,441,010	30,137.82 32,788,43
Series C-1 @ \$3.00	45,041,195	1.4	117,075	164,849	366,877	245,884	372,267	777.684	670.129	14,015,33
Senes C-1 @ \$15 00	67,092,432		34,879	49,111	109,299	74,147	110,910	231,684	199,642	4,175,39
Series C-2 @ \$17.00	332,621,900		152,574	214,833	478,117	324,348	485,167	1,010,482	873,317	18,264,88
Warrants on Common							2017			
Exercise Price @ \$0.072							10,968	22,911	19,742	412.89
Common	- 1		1,406,936	1,983,862	4,415,145	2,995 172	4,480,252	9,358,947	8,064,594	168,665,013
Oplians on Common										
Exercise Price @ \$0.015			-	2,292	5,101	3,460	5,176	10,812	9,317	194,85
Exercise Price @ \$0,030 Exercise Price @ \$0,055				-	17,063	11,575	17,315	36,170	31,167	651,84
Exercise Price @ \$0.000						5,413	8,096 36,141	16,913 79,674	14,574 68,655	304,80
Exercise Price @ \$0.094					1.00		30,741	9,653	8,318	173,97
Exercise Price @ \$0.170				÷ .			ie -		105,742	2,211,53
Exercise Price @ \$0 205	the second s		Contraction of the local division of the loc	1				100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100		337,57
	\$ 464,565,544	\$ 5,338,769	\$ 2,454,524	5 3,456,400	5. 7,713,839	\$ 5,238,373	\$ 7,884,794	\$ 16,480,462	\$ 14,305,937	\$ 299,558,35
			Per Share							
Share Class	Number of Shares	Total Value	Marketable							
Preferred Share Classes										
5eries A @ 50 150	46,320,045									
Series 8 @ 50 1846	54,134,965	39,131,429	0.72							
Series C @ \$0,564	58,895,105	58,956,625	1.00							
Series C-1 @ \$3.00	25,175,001 7,500,032	61,774,321 72,077,495	2.45							
	1000/032									
Series C-1 @ \$15.00	32.808.227	354.428.619	10.60							
	32,808,227	354,428,619	10.60							



Barr Class Shares U.g. Preference Preference Exercise Common EX Exercise Exercise <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>DCF Equity All</th> <th>ocation 2/7/14 - Ste (US</th>									DCF Equity All	ocation 2/7/14 - Ste (US
Bate Class Since C All Prevente Series A, B Lie, Lie, Prevente SO 15 Options Exercise So 30 Option				\$0.015	\$0.030	\$0.065	\$0.072	\$0.094	\$0.170	\$0.206
Series A (2010) 40.320.045 5 5 5.942,807 5 10.024.09 5 11.025,22 5 11.026,22 5 11.022,22 5 11.026,22 5 11.022,22 5 11.022,22 5 11.022,22 5 11.022,22 5 11.022,22 5 11.022,22 5 11.022,22 5 11.022,22 5 11.022,22 5 11.022,22 5 11.022,22 5 11.022,22 5 11.022,22 5 11.022,22 5 11.022,22 5 11.022,22 5 11.022,22 11.022,22 </th <th></th> <th></th> <th></th> <th>A COLUMN TO THE POST OF THE A</th> <th></th> <th></th> <th>Options on</th> <th></th> <th></th> <th>\$0.206 Options Exercise</th>				A COLUMN TO THE POST OF THE A			Options on			\$0.206 Options Exercise
Bernis 68 91 0486 54,154 985 9,994 630 10,088 656 12,243,004 110,001,219 24,802,216 34,400,216 34,110,160 44,3349 Series C (B) 33.00 25,175,001 75,525,003 75,525,003 75,525,003 75,525,003 75,525,003 75,525,003 75,525,003 75,525,003 75,525,003 75,525,003 75,525,003 75,525,003 75,525,003 75,525,003 75,525,003 75,525,003 75,525,003 75,525,003 75,525,003 75,739,859 557,739,859			21 102 102 10		100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100	0' 37 x7 x7 x7 x	The second second	1.1		
Entries (G) 80.564 58.898,106 33.217,403 33.017,407 34.100,845 35.897,487 13.395,380 44.531,862 59.93,486 99.984,2 Series C-1 (B) 5100 7.5001 75.552,003 75.552			a construction of the second	a	and the second second second	 Indianalization 	 Y of the African 	The second se	\$ 27,653,067	\$ 37,194,99
Series C-1@ \$3.00 25 / 175.001 75.825.003 85.823.19.82 95.92.16.229 95.18.572 95.83.743.765 95.86.827.738 95.72.405.103					12,430,904	16,003,811	19,901,529	24,990,216	34, 193, 160	45,344,96
Series C 10/2 510 00 7.500 032 112.500.480 112.502.980 112.502.981 113.332.984 113.372.985 114.977.985 115.952.984 117.980.979 Series C 2/2 517.00 32.806.227 507.739.869 559.219.829 551.318.072 563.743.765 568.327,738 572.465.138 577.93.859 577.93.859 559.218.239 561.318.072 563.743.765 586.827,738 572.465.138 577.93.859 577.93.859 577.93.859 593.743.765 586.37.73 577.93.859 593.743.855 586.37.73 577.93.859 593.743.855 593.742.565 593.742.565 593.742.565 593.742.565 593.742.565 593.742.565 593.742.565 593.742.565 593.742.565 593.742.565 593.742.565 593.742.565 593.742.565 593.742.565 593.742.565 593.742.565 593.742.565 593.742.575 593.742.575 593.742.575 593.742.575 593.742.575 593.742.575 593.742.575 593.742.575 593.742.575 593.742.575 593.742.575 593.742.575 593.742.575 593.742.575 593.742.575 593.742.575 593.742.575	58,896,105	33,217,403	33,217,403	34,100,845	35,867,728	39,754,871	43,995,390	49,531,624	59,543,962	71,676,56
Series C-1@ 315.00 7.500.032 112.500.480 112.502.980 112.502.980 112.502.980 112.502.980 112.502.980 112.502.980 112.502.980 112.502.980 112.502.980 112.502.980 112.502.980 112.502.980 112.502.980 557.739.859 558.231.982 559.230.982 559.230.982 559.230.982 559.230.982 559.230.982 559.230.982 559.230.982 559.230.982 559.230.982 559.230.982 559.230.982 559.230.982 559.230.982 559.230.982 559.230.982 559.250.982 559.250.982 559.250.982 559.250.982 559.250.982 559.250.982 559.250.982 559.250.982 559.250.982 559.250.982 559.250.982 559.250.982	25,175,001	75,525,003	75,525,003	75,902,628	76,657,878	78,319,428	80,132,028	82,498,478	86,778,228	91,964,27
Series C-2 @ 517.00 32.808.227 557.738.859 557.738.859 558.231.982 559.216.229 951.381.572 563.743,765 966.827.738 572.405.136 577.163.6 Variants on Comman 302.265.725 - 4.544.466 9.088.972 19.805.738 21.813.532 28.478.778 51.504.173 62.410.9 Demotion on Side State Price @ 50.015 350.000 - - 5.250 17.860 19.900 27.680 54.230 96.83 Exercise Price @ 50.015 350.000 - - 5.250 17.860 19.900 27.680 54.230 96.83 Exercise Price @ 50.016 557.730 - - - 3.2265 15.330 96.940 76.65 Exercise Price @ 50.026 547.530 - - - - - 1.001.126.95 33.05 96.927.457 76.92.27.803 95.92.95.92.95 35.05 1.002.126.95 59.72.92.27.92 35.05 1.002.126.95 59.72.92.27.92 35.05 1.002.126.95 59.72.92.27.92 35.05 1.002.126.95	7,500,032	112,500,480	112,500,480	112,612,980	112,837,981	113,332,984	113,872,986	114.577.989	115 852 994	
Exercise Price @ 50.072 741,955 - - - - - - 16,317 72,983 99,3 Common 302,967,725 - - 4,544,496 9,089,972 19,965,738 21,813,532 28,478,778 51,904,173 62,410.9 Exercise Price @ 50.05 350,000 - - 52,200 17,850 19,980 27,650 54,250 668,402 726,832 322,264 78,323 55,330 66,840 756,832 220,000 77,850 53,30 66,840 756,93 73,265 15,330 66,840 766,942 722,275 330,00 Exercise Price @ 50.072 27,717,5 - - - - 23,730 346,55 766,942 722,727 330,00 778,992,745 - - - - - 23,730 300,260 Options 50,020	32,808,227	557,739,859	557,739,859	558,231,982	559,216,229				and the second se	579,163,63
Sommon 302,957,725 4,544,865 9,088,972 19,989,738 21,813,532 28,478,778 51,501,173 62,419,9 Exercise Price ig \$0.015 350,000 1 5200 17,260 19,980 27,650 54250 66,833 20,000 Exercise Price ig \$0.015 350,000 1 1 5200 17,260 19,980 27,650 54250 66,833 20,000 Exercise Price ig \$0.015 350,000 1 1 52,250 17,260 19,980 27,650 54250 66,833 20,000 56,840 76,85 53,30 56,840 76,85 53,30 56,840 76,85 53,30 56,840 76,85 74,22 22,759 33,00 10,05,125,9 28,752 10,05,125,9 28,752 35,05 10,05,125,9 28,752 35,055 20,770 10,05,125,9 20,770 10,05,125,9 20,770 10,05,125,9 10,05,125,9 10,05,125,9 20,770 10,05,125,9 10,05,125,9 10,05,125,9 10,05,125,9 10,05,125,9 10,05,125										
Subscriptions on Command Exercise Price 8 \$0.0015 350,000 3,57,457 350,000 3,57,457 350,000 3,57,457 375,857 42,152 43,177 74,596 54,250 66,84 76,85 32,265 17,850 39,960 27,660 54,250 66,84 76,85 32,265 15,330 56,942 222,759 33,55 35,072 33,05 55,330 56,940 76,85 33,072 35,072 33,05 55,330 56,940 76,85 32,072 33,05 53,072 33,05 53,072 33,05 50,742 222,759 33,05 50,072 94,855,076 1,006,125,9 33,072 35,072 33,072 35,072 33,072 35,072 33,072 35,072 35,072 35,072 33,072 35,072<	741,665	-	-					16,317	72,683	99,38
Evercise Proc @ 50.015 330.000 - 5,250 17.800 19.980 27.850 54.250 54.250 Evercise Proc @ 50.004 1.170.875 - - 5,250 17.800 19.980 27.850 54.250 78.69	302,965,725	1	÷	4,544,486	9,088,972	19,995,738	21,813,532	28,478,778	51,504,173	62,410,93
Exercise Price @ 50.030 1,170.375 - 42,152 40,177 74,936 193,923 200,0 Exercise Price @ 50.066 547,500 - - - - 3,285 16,303 66,400 76,6 76,6 76,6 76,6 76,6 76,6 76,6 76,6 76,6 76,6 76,6 76,6 76,6 76,742 252,759 345,6 76,742 23,750 32,76 32,86 76,742 23,750 33,07 776,982,745 755,925,582 803,842,594 815,137,351 840,937,937 866,966,217 866,874,467 946,855,026 1,006,125,69 76,742 23,750 30,000 80,206,010m 80										
Exercise Price @ 50.066 547.500 547.500 547.500 567.42 252.759 345.6 Exercises Price @ 50.072 2.579.175 - - - - - - - - - - 3285 15.330 56.400 776.9 - 3285 10.372 282.759 345.6 - - - 32.85 50,742 282.759 345.6 - 32.85 50,742 282.759 345.6 340.0 - 32.85 50,742 282.759 345.6 340.0 - 340.0 - 340.0	350,000				5,250	17,850	19,950	27,650	54,250	66.85
Exercise Price @ \$0.006 547,500 56,240 76,6 Exercise Price @ \$0.072 2,579,175 - - 56,742 252,759 356,0 Exercise Price @ \$0.074 312,500 - - 56,742 222,759 356,0 Exercise Price @ \$0.076 633,925 - - 50,0170 23,750 143,0 Exercise Price @ \$0.002 538,080,837 778,982,745 795,925,582 800,842,594 815,137,351 840,937,937 868,966,217 896,674,457 946,555,026 1,006,125,9 Stock Price Now Series C, C-1, C-2 Series A, B Lie, \$0.016 Options \$0.020 Options \$0.026 Options \$0.026 Options \$0.026 Options \$0.026 Options \$0.026 Options \$0.206 Options \$0.206 Options \$0.206 Options \$0.026 Sortes \$0.026 Sortes \$0.026 Sortes \$0.206 Options \$0.026 Sortes \$0.026 Sortes \$0.026 Sortes \$0.026 Sortes \$0.026 Sortes \$0.206 Options \$0.206 Options \$0.206 Options \$0.206 Options \$0.206 Options \$0.206 Options \$0.206 Sortes \$0.206 Sortes <t< td=""><td>1,170,875</td><td>-</td><td></td><td></td><td></td><td>42,152</td><td>49.177</td><td>74,936</td><td></td><td></td></t<>	1,170,875	-				42,152	49.177	74,936		
Exercise Price @ 50.072 2,579,175 56,742 252,759 3456 Exercise Price @ 50.074 312,250 3.972,457 23,750 350,0 Exercise Price @ 50.074 3.972,457 23,799 3.60 Exercise Price @ 50.074 3.972,457 946,555,026 1.006,125,9 50,600,837 776,992,745 795,925,642 803,842,584 815,137,351 840,937,937 868,956,217 586,874,457 948,555,026 1.006,125,9 Stock Price Now Lig. Proference Preference 50,016 Options 50.026 Options 50.026 Options 50.026 Options 59,170 Options of 0.00000 5 951,000,000 5 991,000,000 5 991,000,000	547,500		6							
Exercise Price @ \$0.094 312.200 23,720 350 Exercise Price @ \$0.170 3.972,457 795.925,692 803,842,584 815,137,351 840.937,937 888,866,217 886,874,457 948,555,026 1.006,126,9 Stretcise Price @ \$0.170 50.690,6037 778,992,745 795,925,692 803,842,584 815,137,351 840.937,937 888,866,217 886,874,457 948,555,026 1.006,126,9 Stock Price Now \$ 951000,000 \$ 951,00			4				-,	(C \$	17 M 1 10	
Exercise Price @ \$0.206 3,972,457 B66,365 1420 Exercise Price @ \$0.206 538.080.337 775,982.745 795,925.562 803,842.584 815,137,351 840,937,937 858.956,217 886,874.457 948,555.026 1,006,125,9 spires A, FLice Series A, B Liq, Proference \$0.016 Options Exercise \$0.026 Options Exercise \$0.026 Options Exercise \$0.026 Options Exercise \$0.072 Warrants / Options on Exercise \$0.070 Options Exercise \$0.070 Options Exercise \$0.070 Warrants / Options on Exercise \$0.070 Warrants / So.076 \$0.070 Options Exercise \$0.070 Options So.076 \$0.00 Options So.076 \$0.00 Options So.076 \$0.06 Options So.076 \$0.06 Options So.076 \$0.06 Options So.076 \$0.06 Options So.076 \$0.070 Options So.076 \$0.070 Options So.076 \$0.070 Options So.076 \$0.070 Options So.076 \$0.070 Options So.076 \$0.06 Options S					- C.			111 Carl		1.11.6.1
Exercise Price @ \$0.208 606.365 .						2			20,100	
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Series C, C-1, C-2 Series A, B, Liq. Preference \$0.016 Options Preference \$0.026 Options Exercise Options on Exercise Options on Common Ex. \$0.170 Options Exercise \$0.170 Options Exercise stock Price Now Volatily Niskfree Rate - Annual Exercise Price \$ 951,000,000 \$ 948,555,026 \$ 1,005,125,9 Dutputs ft	538,080,637	778,982,745	795,925,582	803,842,584	815,137,351	840,937,937	858,956,217	886,874,457	948,555,026	1,006,125,94
Inputs Stock Price Now \$ 951,000,000 \$ 940,555,026 \$ 0,000				and the second se	and the second se		Options on			\$0.206 Options
Volatility Riskfree Rate - Annual Exercise Price 53.0% 1.38% 1.	A section in and a									
Riskfræ Rate - Annual Exercise Price 1.38%	the second s			the second se	the second se				\$ 951,000,000	\$ 951,000,00
Exercise Price Time To Maturity - Years \$ 0.00 \$ 778,982,745 \$ 785,925,592 \$ 803,842,584 \$ 815,137,351 \$ 840,937,937 \$ 868,956,217 \$ 886,874,457 \$ 948,555,026 \$ 1,006,125,93 Outputs d1 39.63 0.77 0.75 0.74 0.73 0.70 0.68 0.65 0.58 0.0 d2 38.67 (0.29) (0.31) (0.32) (0.33) (0.35) (0.38) (0.41) (0.48) (0.0) N(d1) 1.000 0.779 0.773 0.770 0.766 0.757 0.751 0.741 0.720 0.01 N(d2) 1.000 0.386 0.378 0.375 0.370 0.359 0.351 0.340 0.317 0.02 Call Price (V_c) \$ 951,000,000 \$ 456,633,546 \$ 450,506,701 \$ 447,685,948 \$ 443,707,334 \$ 434,815,355 \$ 268,762,774							53.0%	53.0%	53.0%	53.0
Time To Maturity - Years 4.00 4							1.38%	1.38%	1.38%	1.38
Dutputs d1 39.63 0.77 0.75 0.74 0.73 0.70 0.68 0.65 0.58 0.61 d2 38.57 (0.29) (0.31) (0.32) (0.33) (0.36) (0.41) (0.48) (0. N(d1) 1.000 0.779 0.773 0.770 0.766 0.757 0.751 0.741 0.720 0.71 N(d2) 1.000 0.386 0.378 0.375 0.370 0.359 0.351 0.340 0.317 0.32 Call Price (V_c) \$ 951,000,000 \$ 456,633,546 \$ 447,685,948 \$ 443,707,334 \$ 434,815,355 \$ 428,762,774 \$ 419,630,618 \$ 400,456,912 \$ 383,715,3 -d1 -39,635 -0,770 -0,750 -0,740 -0,727 -0,698 -0,678 -0,648 -0,584 -0,64 -d2 -38,635 -0,770 -0,750 -0,740 -0,727 -0,698 -0,678					\$ 815,137,351	5 840,937,937	\$ 858,956,217	\$ 886,874,457	\$ 948,555,026	\$ 1,006,125,94
d1 39.63 0.77 0.75 0.74 0.73 0.70 0.68 0.65 0.68 0.65 0.58 0.0 d2 38.67 (0.29) (0.31) (0.32) (0.33) (0.36) (0.38) (0.41) (0.41) (0.48) (0. N(41) 1.000 0.779 0.773 0.770 0.766 0.757 0.751 0.741 0.720 0.7 N(42) 1.000 0.386 0.378 0.375 0.370 0.359 0.351 0.340 0.317 0.2 0.2 Call Price (V_c) \$ 951,000,000 \$ 456,633,546 \$ 450,506,701 \$ 447,685,948 \$ 443,707,334 \$ 434,815,355 \$ 428,762,774 \$ 419,630,618 \$ 400,456,912 \$ 383,715,33 -d1 -39,635 -0,770 -0,750 -0,740 -0,727 -0,698 -0,678 -0,648 -0,584 -0,584 -0,54 -0,54 -d2 -38,635 0.290 0.310 0.320 0.233 0.362 0.382 0.412 0.476 0.32 N(-d2) 0.000 0.614	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.0
d2 38.57 (0.29) (0.31) (0.32) (0.33) (0.36) (0.38) (0.41) (0.48) (0. N(d1) 1.000 0.779 0.773 0.770 0.766 0.757 0.751 0.741 0.720 0.7 N(d2) 1.000 0.386 0.378 0.375 0.370 0.359 0.351 0.340 0.317 0.2 Call Price (V2) \$ 951,000,000 \$ 456,633,546 \$ 450,506,701 \$ 447,685,948 \$ 443,707,334 \$ 434,815,355 \$ 428,762,774 \$ 419,630,618 \$ 400,456,912 \$ 383,715,33 -d1 -39,635 -0,770 -0,750 -0,740 -0,727 -0,698 -0,678 -0,648 -0,584 -0,648 -0,584 -0,646 -0,412 0,476 0.42 -d2 -38,675 0.290 0.310 0.320 0.333 0.362 0.382 0.412 0,476 0.44 N(-d1) 0.000 0.614 0.622 0.625 0.630 0.649 0.660 0.663 0.5 Put Price (P _g) S - \$ 242,929,144										
d2 38.57 (0.29) (0.31) (0.32) (0.33) (0.36) (0.39) (0.41) (0.48) (0. (0.41) N(d1) 1.000 0.779 0.773 0.770 0.766 0.757 0.751 0.741 0.720 0.7 N(d2) 1.000 0.386 0.378 0.375 0.370 0.359 0.351 0.340 0.317 0.2 Call Price (V_c) \$ 951,000,000 \$ 456,633,646 \$ 450,506,701 \$ 447,685,948 \$ 443,707,334 \$ 434,815,355 \$ 428,762,774 \$ 419,630,618 \$ 400,456,912 \$ 363,715,33 -d1 -39,635 -0,770 -0,750 -0,740 -0,727 -0,698 -0,678 -0,648 -0,584 -0,584 -0,584 -0,584 -0,546 -0,476 0.42 -d2 -38,575 0.290 0.310 0.320 0.233 0.362 0.382 0.412 0.476 0.42 N(-d1) 0.000 0.614 0.622 0.625 0.630 0.649 0.660 0.663 0.51 Put Price (P _s) \$ - \$ 242,92	39.63	0.77	0.75	0.74	0.73	0.70	0.68	0.65	0.58	0.5
N(d1) 1.000 0.779 0.773 0.770 0.766 0.757 0.751 0.741 0.720 0.71 N(d2) 1.000 0.386 0.378 0.375 0.370 0.359 0.351 0.340 0.317 0.2 Call Price (V _c) \$ 951,000,000 \$ 456,633,546 \$ 450,506,701 \$ 447,685,948 \$ 443,707,334 \$ 434,815,355 \$ 428,762,774 \$ 419,630,618 \$ 400,456,912 \$ 363,715,3 -d1 -39,635 -0,770 -0,750 -0,740 -0,727 -0,698 -0,678 -0,648 -0,584 -0,4 -d2 -38,575 0,290 0,310 0,320 0,333 0,362 0,382 0,412 0,476 0,4 N(-d1) 0.000 0,221 0,227 0,230 0,234 0,243 0,249 0,259 0,280 0,2 N(-d2) 0.000 0.614 0.622 0.625 0.630 0.641 0.649 0.660 0.6683 0,7 Put Price (P _g)	38 57	(0.29)	(0.31)	(0.32)	(0.33)	(0.35)	(0.38)	_3.V_A_	(7/5 2/	
N(d2) 1.000 0.386 0.378 0.375 0.370 0.359 0.351 0.340 0.317 0.3 Call Price (V_c) \$ 951,000,000 \$ 456,633,546 \$ 450,506,701 \$ 447,685,948 \$ 443,707,334 \$ 434,815,355 \$ 428,762,774 \$ 419,630,618 \$ 400,456,912 \$ 383,715,336 -d1 -39,635 -0.770 -0.750 -0.740 -0.727 -0.698 -0.678 -0.648 -0.584 -0.584 -0.584 -d2 -38,635 -0.770 -0.750 -0.740 -0.727 -0.698 -0.678 -0.648 -0.584 -0.584 -0.584 -d2 -38,635 -0.770 -0.750 -0.740 -0.727 -0.698 -0.678 -0.648 -0.584					· · · · · · · · · · · · · · · · · · ·	E.C.C.C.	100000		N	
Call Price (V_c) \$ 951,000,000 \$ 456,633,546 \$ 450,506,701 \$ 447,685,948 \$ 443,707,334 \$ 434,815,355 \$ 428,762,774 \$ 419,630,618 \$ 400,456,912 \$ 383,715,3 -d1 -39,635 -0,770 -0,750 -0,740 -0,727 -0.698 -0,678 -0,648 -0,584 -0.4 -d2 -38,575 0.290 0.310 0.320 0.333 0.362 0.382 0.412 0.476 0.4 N(-d1) 0.000 0.221 0.227 0.230 0.234 0.243 0.249 0.259 0.280 0.3 N(-d2) 0.000 0.614 0.622 0.625 0.630 0.641 0.660 0.663 0.3 Put Price (P _p) \$ - \$ 252,838,444 \$ 257,511,015 \$ 264,222,730 \$ 279,750,623 \$ 290,752,076 \$ 308,044,119 \$ 347,250,156 \$ 384,998,650	(1-1-1-1)						- 2 - C. 201			
-d2 -38.575 0.290 0.310 0.320 0.333 0.362 0.382 0.412 0.476 0.333 N(-d1) 0.000 0.221 0.227 0.230 0.234 0.243 0.249 0.259 0.280 0.3 N(-d2) 0.000 0.614 0.622 0.625 0.630 0.641 0.649 0.660 0.683 0.3 Put Price (P _p) \$ - \$ 242,929,144 \$ 252,838,444 \$ 257,511,015 \$ 264,222,730 \$ 279,750,623 \$ 290,752,076 \$ 308,044,119 \$ 347,250,156 \$ 384,998,6				the second se		10,000,000,000,000,000,000,000,000,000,	the second se			
-d2 -38.575 0.290 0.310 0.320 0.333 0.362 0.382 0.412 0.476 0.333 N(-d1) 0.000 0.221 0.227 0.230 0.234 0.243 0.249 0.259 0.280 0.3 N(-d2) 0.000 0.614 0.622 0.625 0.630 0.641 0.649 0.660 0.683 0.3 Put Price (P _p) \$ - \$ 242,929,144 \$ 252,838,444 \$ 257,511,015 \$ 264,222,730 \$ 279,750,623 \$ 290,752,076 \$ 308,044,119 \$ 347,250,156 \$ 384,998,6	20 525	0.770	0.350	0.740	0.707				644	
N(-d1) 0.000 0.221 0.227 0.230 0.234 0.243 0.249 0.259 0.280 0.2 N(-d2) 0.000 0.614 0.622 0.625 0.630 0.641 0.649 0.660 0.683 0.7 Put Price (P _g) \$ - \$ 242,929,144 \$ 257,511,015 \$ 264,222,730 \$ 279,750,623 \$ 290,752,076 \$ 308,044,119 \$ 347,250,156 \$ 384,998,6 <td>1010777</td> <td>- TROD 7</td> <td></td> <td>- J. P. J.</td> <td>- eri = (</td> <td>(- A + P - 4</td> <td></td> <td></td> <td></td> <td></td>	1010777	- TROD 7		- J. P. J.	- eri = ((- A + P - 4				
N(-d2) 0.000 0.614 0.622 0.625 0.630 0.641 0.649 0.660 0.683 0.7 Put Price (P _p) \$ - \$ 242,929,144 \$ 252,838,444 \$ 257,511,015 \$ 279,750,623 \$ 290,752,076 \$ 308,044,119 \$ 347,250,156 \$ 384,998,6			1.100.000							0.5
Put Price (Pp) \$ - \$ 242,929,144 \$ 252,838,444 \$ 257,511,015 \$ 264,222,730 \$ 279,750,623 \$ 290,752,076 \$ 308,044,119 \$ 347,250,156 \$ 384,998,6		- Contraction of the contraction		7.46.27		(1) T (1)	(a) and (a)		a second s	0.2
	0,000						0.649	0.660	0.683	0.7
air Market Value \$ 951,000,000 \$ 456,633,546 \$ 450,506,701 \$ 447,685,948 \$ 443,707,334 \$ 434,815,355 \$ 428,762,774 \$ 410,630,618 \$ 40,456,012 \$ 383,715,3									The second	
	S -	5 242,929,144	\$ 252,838,444	\$ 257,511,015	\$ 264,222,730	\$ 279,750,623	\$ 290,752,076	\$ 308,044,119	\$ 347,250,156	\$ 384,998,6
Put Price (Pp)		Shares 46,320,045 54,134,965 58,896,105 25,175,001 7,500,032 32,808,227 741,665 302,965,725 350,000 1,170,875 547,500 2,579,175 312,500 3,972,457 606,365 538,080,637 \$ 951,000,000 538,080,637 \$ 951,000,000 \$ 39,63 38,67 1,000 \$ 951,000,000 -39,635 -38,635 -38,635 -38,635 -38,635 -38,635 -38,635 -30,000	Shares Lig. Preference 46,320,045 \$ 54,134,965 - 58,896,105 33,217,403 25,175,001 75,525,003 7,500,032 112,500,480 32,808,227 557,739,859 741,665 - 302,965,725 - 350,000 - 1,170,875 - 547,500 - 3,972,457 - 606,365 - 538,080,637 778,982,745 538,080,637 778,982,745 538,080,637 778,982,745 538,080,637 778,982,745 538,080,637 778,982,745 538,080,637 778,982,745 538,080,637 778,982,745 4.00 4.00 39,653 0,77 38,57 (0,29) 1,000 0,779 38,657 (0,29) 1,000 0,788 5 951,000,000 \$ 456,633,546 -39,635 -0,770	Shares Liq. Preference Preference 46,320,045 \$ \$ \$ 9,94,830 54,134,965 33,217,403 33,217,403 33,217,403 25,175,001 75,525,003 75,525,003 75,525,003 7,500,032 112,500,480 112,500,480 112,500,480 32,808,227 557,739,859 557,739,859 557,739,859 741,665 - - - 302,965,725 - - - 350,000 - - - 1,170,875 - - - 3,972,457 - - - 3,972,457 - - - 538,080,637 778,982,745 795,925,582 - 538,080,637 778,982,745 795,925,582 - 5951,000,000 \$ 951,000,000 \$ 951,000,000 \$ 951,000,000 538,685 - - - - 30,000 \$ 951,000,000 \$ 951,000,000 \$ 951,000,000 \$ 951,000,000	Number of Shares Series C, C-1, C-2 Liq, Preference Series A, B Liq, Preference So.016 Options Exercise 46,320,045 \$ \$ 6,948,007 \$ 7,642,807 54,134,965	Number of Shares Series C, C-1, C-2 Liq. Preference Series A, B Liq. Preference S0.016 Dptions Exercise S0.03 Options Exercise 46,320,045 \$ \$ 6.948,007 \$ 7,642,807 \$ 9,032,409 54,134,965	Number of Shares Series C, C-1, C-2 Liq, Preference Series A, B Liq, Preference So.016 Options Exercise So.03 Options Exercise So.03 Options Exercise 46,320,045 \$ \$ \$ 9,94,430 10,806,855 12,430,904 16,003,811 56,332,045 \$ \$ \$ 9,94,430 10,806,855 12,430,904 16,003,811 56,380,6105 33,217,403 33,217,403 33,217,403 34,100,845 35,867,728 39,754,871 75,000,032 112,500,480 112,500,480 112,612,980 112,837,981 113,332,984 32,808,227 557,739,859 557,739,859 559,211,992 559,216,229 551,381,572 741,665 - - - - - - 350,000 - - - - - - 312,500 - - - - - - - 360,000 - - - - - - - - - - - - -	Number of Shares Series C, C-1, C-2 Liq, Proference Series A, B Liq, Proference So.016 Options Exercise So.030 Options Exercise So.030 Options So.030 Options So.036 Options Exercise 46,320,045 \$ \$ 5.948,007 \$ 7,642,807 \$ 9,032,409 \$ 12,089,532 \$ 16,424,575 58,886,105 32,217,403 33,217,403 33,217,403 33,217,403 33,217,403 33,217,403 33,217,403 33,217,403 34,100,446,35,657,278 78,919,428 80,132,028 7,500,032 112,500,480 112,60,480 112,612,860 112,612,860 113,332,844 113,332,844 113,332,844 113,332,844 113,332,844 113,322,844 113,322,844 113,322,844 113,322,844 113,322,844 113,322,844 113,322,844 113,322,844 113,322,844 113,322,844 113,322,844 113,322,844 113,322,844 113,323,844 113,322,844 113,323,844 113,323,844 113,323,844 113,323,844 113,323,844 113,323,844 113,323,844 113,323,844 113,323,844 113,845,944,955 113,332,844	Number of Shares Series C, C-1, C-2 Liq. Preference Series A, B Liq. Preference S0.016 Options Exercise S0.030	Summer Series C, C-1, C-2, Barries A, B Lie, Starres Soutis Options Exercise 49.320.045 5 5 5.948.007 5 7,642.807 9.032.409 5 15,424.575 5 19,778.695 27,850.007 58.886.105 33.217.403 33.004.046 35,827.780 39,754.871 43,645.900 40,531.824 69,843.982 24,890.216 34,193.168 98,874.971 43,549.971 43,649.979 99,748.971 43,849.982 98,772.986 114,777.986 114,777.989 115,862.984 115,827.989 114,777.989 115,862.984 559,274.985 115,844.473 559,274.975 11,819.92 24,847.9778 51,844.473 300.000 - - 5,250 17,899



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 115 of 156

atuation of Theranos, Inc. s of December 31, 2014									DCF Equity Alloc	ation 2/7/14 - Step (USI
tigh call option less low call option Total Value la Allocate	Series C, C-1, C-2 Liq. Preference \$ 951,000,000 456,633,546 \$ 494,366,454	Series A, B Liq. Preference \$ 456,633,546 450,506,701 \$ 5,126,844	\$0,015 Options Exercise \$ 450,506,701 447,655,948 \$ 2,820,753	\$0.03 Options Exercise \$ 447,685,948 -443,707,334 \$ 3,976,614	\$0.066 Options Exercise \$ 443,707,334 434,815,355 \$ 8,891,979	\$0.072 Warrants / Options on Common Ex. \$ 434,815,355 428,762,774 \$ 0.052,581	\$0,034 Options Exercise \$ 428,762,774 419,630,618 \$ 9,132,156	\$0.170 Options Exercise 5 419,630,618 400,456,912 5 19,173,706	\$0.286 Options Exercise 5 400,456,912 383,715,353 5 16,741,559	All Classes Participate 5 383,715,353 5 383,715,353
referred Share Classes		*				100 million (1997)		S. States		
Series A @ \$0.150 Series 8 @ \$0.1646		6,948,007 9,994,830	46,320,045 54,134,965	46,320,045 54,134,965	46,320,045 54,134,965	46,320,045 54,134,965	46,320,045 54,134,965	46,320,045 54,134,965	46,320,045 54,134,965	46,320,045
Series C @ \$0 584	33,217,403		58,896,105	58,896,105	58,696,105	58,895,105	58,896,105	58,896,105	58.896.105	58,896,100
Series C-1 @ \$3.00	75,525,003	(A)	25,175,001	25,175,001	25,175,001	.25,175,001	25,175,001	25,175,001	25,175,001	25,175,00
Series C-1 @ \$15.00 Series C-2 @ \$17.00	112,500,460 557,739,859	1.1.1.1	7,500,032	7,500,032	7,500,032	7,500,032	7,500,032 32,808,227	7,500,032 32,808,227	7,500,032 32,808,227	7,500,03
arrants on Common	ant/realant		an and the	asteneter.	actionates	JE,000,227			38,000,281	32,000,22
Exercise Price @ \$0.072	21	20				· · · ·	741,665	741,665	741,665	741,66
ammon	~	1.00	302,965,725	302,965,725	302,965,725	302,965,725	302,965,725	302,965,725	302,965,725	302,965,72
Exercise Price @ \$0 015				350,000	350,000	350,000	350,000	350,000	350,000	350,000
Exercise Price @ \$0.030		- C.		350,000	1,170,875	1,170,675	1,170,875	1,170,875	1,170,875	1,170,675
Exercise Price @ \$0.066		-			1,170,013	547,500	547,500	547,500	547,500	547,500
Exercise Price @ \$0.072							2,579,175	2,579,175	2,579,175	2,579,17
Exercise Price @ \$0.094	14.	100					-	312 500	312,500	312,50
Exercise Price @ \$0.170								1.1	3,972,457	3,972,45
Exercise Price @ \$0.206	778,982,745	16,942,837	527,800,100	528,150,100	529,320,975	529,666,475	533,189,315	533,501,815	537,474,272	606,38 538,080,63
stribution Percentage	_									0001000100
referred Share Classes		1.000						1.000	and and	
Series A @ \$0 150	0.0%	41.0%	8 8%	8.8% 10.2%	8.6%	8.7%	8.7%	8.7%	8.6%	0.0
Series 8 @ \$0 1846 Series C @ \$0 564	4 3%	DOW	11.2%	11.2%	10.2%	10.2%	10.2%	10.1%	10.1%	10.1
Series C-1 @ \$3.00	9.7%	0.0%	4.8%	4.6%	4.8%	4.8%	4.7%	4.7%	4.7%	4.7
Beries G-1 @ \$15.00	14.4%	0.0%	1.4%	1.4%	1.4%	1.4%	1.4%	1.4%	1.4%	2.4
Series C-2 @ \$17.00	71.6%	0.0%	6.2%	6.2%	8.2%	6 2%	6.2%	6.1%	6.1%	61
Exercise Price @ \$0.072	0.0%	0.0%	0.0%	0.0%	0.0%		0.1%	01%	0.1%	0.1
omman	0.0%	0.0%	57.4%	57.4%	57.2%	57 2%	56.8%	56.8%	56 4%	56 3
	330		at the			5.24	20.04		20.41	
Exercise Price @ \$0.015	0.0%	0.0%	D DW	0 1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1
Exercise Price @ \$0.030	0.0%	0.0%	0.0%	0.0%	0.2%	0.2%	0.2%	0.2%	0.2%	0.1
Exercise Price @ \$0.066	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.1%	0.1%	0.1
Exercise Price @ \$0.072	0.0%	0.0%	0.0%	0.0%	0.0%	D.0%	0.5%	0.5%	0.5%	0.5
Exercise Price @ \$0.094	0.0%	0.0%	0.0%	0.0%	0.0%	D.0%	0.0%	D.1%	0.1%	01
Exercise Price @ \$0.170	0.0%	0.0%	D DW	0.0%	0.0%	0.0%	0.0%	0.0%	0.7%	07
Exercise Price @ \$0 205	100.0%	100.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0 1
liocation of Value			-							
referred Share Classes										
Series A @ \$0 150	5	\$ 2,512,528	\$ 247,551	\$ 348,934	\$ 778,123	\$ 529,105	5 793,343	5 1,664,712	5 1,442,804	\$ 33,031,68
Series 8 @ \$0 1845	21,080,785	3,614,316	289,317	407,605	909,405 989,386	618.373	927,192	1,945,575	1,686,227	36,604,65
Series C @ \$0.564 Series C 1 @ \$3.00	47,930,494		134,544	189,645	422,911	672,758 287,559	1,006,738 431,163	2,116,687 904,773	1,834,530 784,165	41,999,91
Series C-1 @ \$15.00	71.396.271		40,083	55,499	125,992	85.671	128.456	269.545	233,615	5,348,41
Series C-2 @ \$17.00	353,958,901	2 S	175,339	247,148	551,140	374,762	561,920	1,179,106	1,021,930	23,396,15
amarits an Comman								-	-	
Exercise Price @ 50 072			1,610,157	2,282,275	5,089,473	3,460,717	12,703	26,655	23,102	526,89
	÷		1,619,151	2,252,275	2,003/413	3,460,717	5,169,020	10,868,390	9,436,952	216,050,51
Exercise Price @ \$0.015				2,637	5,680	3,998	5,995	12.579	10.902	249.59
Exercise Price @ \$0.030					19,669	13,375	20.054	42,080	36.471	834 97
Exercise Price @ \$0.066	14	100	÷			6,254	9,377	19,677	17,054	390,43
Exercise Price @ \$0.072						× .	44,175	92,694	80,338	1,839,25
Exercise Price @ \$0.094			~	· · · ·	~		-	11,231	9,734	222,85
Exercise Price @ \$0,170 Exercise Price @ \$0,205									123,736	2,832,83
Catercine (rice @ 30.200	\$ 494,366,454	5 6,126,844	5 2,820,753	\$ 3,978,614	5 8,891,979	\$ 6,052,581	\$ 9,132,156	\$ 19,173,706	\$ 16,741,559	\$ 383,715,35
	(Per Share			1000	1000		1000	
Share Class	Number of Shares	Total Value	Marketable	-						
Series A @ \$0 150	45.320.045	5 41.348.789								
Series A @ \$0 150 Series B @ \$0 1646	46,320,045 54,134,965	5 41,348,789 49,002,864	\$ 0.89 0.91							
Series C @ \$0.564	58,896,105	70,461,233	1.20							
Series C-1 @ \$3.00	25,175,001	69,038,049	2.74							
Series C-1 @ \$15.00	7,500,032	77,684,547	10.36							
Series C-2 @ \$17.00	32,808,227	381,456,405	11.63							
Varrants on Common										
Exercise Price @ \$0.072	741.665	591,355	080							



aluation of Theranos, Inc. As of October 15, 2015									NAV Equity Alloca	ation 10/15/15 - Step (US
Break Point Calculation				\$0.016	\$0.030	\$0.066	\$0.072	\$0,094	\$0.170	\$0.206
Share Class	Number of Shares	Series C, C-1, C-2 Lig. Preference	Series A, B Liq. Preference	\$0.015 Options Exercise	\$0.03 Options Exercise	\$0.066 Options Exercise	\$0.072 Warrants / Options on Common Ex.	\$0.094 Options Exercise	\$0.170 Options Exercise	\$0.206 Options Exercise
Preferred Share Classes										
Series A @ \$0.150	46,320,045	s -	5 6,948,007	\$ 7,642,807	\$ 9,032,409	\$ 12,089,532	S 15,424,575	\$ 19,778,659	\$ 27,653,067	5 37,194,99
Series B @ \$0.1846	54,162,965		10,000,000	10,812,444	12,437,333	16.012.089	19.911.822	25,003,141	34.210.845	45,368,41
Series C @ \$0.564	58,896,105	33,217,403	33,217,403	34,100,845	35,867,728	39,754,871	43,995,390	49,531,624	59,543,962	71,676,56
			65,841,003	66,170,208	66,828,618	68,277,120	69,857,304	71,920,322	75,651,312	80,172,39
Series C-1 @ \$3.00	21,947,001	65,841,003								102,734,27
Series C-1 @ \$15.00	6,563,232	98,448,480	98,448,480	98,546,928	98,743,825	99,176,999	99,649,551	100,266,495	101,382,245	
Series C-2 @ \$17.00	42,947,639	730,109,863	730,109,863	730,754,078	732,042,507	734,877,051	737,969,281	742,006,359	749,307,458	758,154,67
Varrants on Common								and a second		
Exercise Price @ \$0.072	741,665	-	-		-	1	~	16,317	72,683	99,38
Common	302,965,725	-	1	4,544,486	9,088,972	19,995,738	21,813,532	28,478,778	51,504,173	62,410,93
ptions on Common									(course)	
Exercise Price @ \$0.015	350,000	-			5,250	17,850	19,950	27,650	54,250	66,85
Exercise Price @ \$0.030	1,170,875	12 E	-		1.0	42,152	49,177	74,936	163,923	206,07
Exercise Price @ \$0.066	547,500	14			-		3,285	15,330	56,940	76,65
Exercise Price @ \$0.072	2,579,175						1.0	56,742	252,759	345,60
Exercise Price @ \$0.094	312,500				1.0				23,750	35,00
Exercise Price @ \$0.170	3,972,457				-					143,00
Exercise Price @ \$0.206	606,365					-		· · · · · · · · · · · · · · · · · · ·		
	544,083,249	927,616,749	944,564,756	952,571,797	964,046,642	990,243,401	1,008,693,868	1,037,176,354	1,099,877,367	1,158,684,82
		Series C, C-1, C-2 Liq. Preference	Series A, B Liq. Preference	\$0.015 Options Exercise	\$0.03 Options Exercise	\$0.066 Options Exercise	\$0.072 Warrants / Options on Common Ex.	\$0.094 Options Exercise	\$0.170 Options Exercise	\$0.206 Options Exercise
Inputs										
Stock Price Now	\$ 1,051,000,000	\$ 1,051,000,000	\$ 1.051.000.000	S 1.051.000.000	\$ 1,051,000,000	\$ 1,051,000,000	\$ 1.051.000.000	S 1.051.000.000	\$ 1,051,000,000	\$ 1,051,000,00
Volatility	53.0%	53.0%	53.0%	53.0%	53.0%	53.0%	53.0%	53.0%	53.0%	53.0
Riskfree Rate - Annual	1.12%	1.12%	1.12%	1.12%	1.12%	1.12%	1,12%	1.12%	1.12%	1.12
Exercise Price	\$ 0.00	\$ 927,616,749	\$ 944,564,756	\$ 952,571,797	\$ 964,046,642	\$ 990,243,401	S 1.008.693.868	\$ 1,037,176,354	\$ 1,099,877,367	\$ 1,158,684,82
Time To Maturity - Years	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.0
Outputs										
d1	39.72	0.69	0.67	0.67	0.65	0,63	0.61	0.58	0.53	Q.4
d2	38.66	(0.37)	(0.39)	(0.39)	(0.41)	(0.43	(0.45)	(0.48)	(0.53)	(0.3
N(d1)	1,000	0.755	0.750		0.743	0.735	4	0.721	0.702	0.6
	1.000	0.356	0.349		0.342	0.333		0.317	0.298	0.2
N(d2) Call Price (V _e)	\$ 1,051,000,000	\$ 477,913,125	\$ 472,200,133	T1727	\$ 465,758,297	\$ 457,301,157	- All and a second s	\$ 442,712,541	\$ 424,280,684	5 408,011,42
-d1	-39.720	-0,690	-0.673	-0.665	-0.654	-0.628	-0.611	-0.585	-0.529	-0.4
-d1 -d2	-38,660	0.370	0.387		0.406	0.432		0.475	0.531	0.6
					0.257	0.452		0.279	0.298	0.3
N(-d1)	0.000	0.245	0.250			0.667	TATION	0.683	0.702	0.7
	0.000	0.644	0.651	0.654	0.658	0,66/	0.6/3	0.683	0.702	
N(-d2) Put Price (Pp)	S	\$ 313,889,779	\$ 324,382,279	5 329,374,905	\$ 336,568,803	\$ 353,160,708	\$ 364,983,335	\$ 383,448,851	\$ 424,970,994	\$ 464.932.7



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 117 of 156

S v. Elizabeth Holmes Iluation of Theranos, inc. I of October 15, 2015												_	-		NAV Equity Alloca	ation 1	Exhibit 10/15/15 - Ste (US
igh call option	Series C, C-1, C-2 Liq. Preference \$ 1,051,000,000	P	es A, B Liq. reference 477,913,125	\$0.015 Op Exerci \$ 472 2	50	\$0.03 Options Exercise \$ 469,536,516	-	0.066 Options Exercise 465,758,297		072 Warrants / Options on Common Ex.	\$0.094 Opti Exercise	· · · ·	1	170 Options Exercise	\$0.206 Options Exercise	100	All Classes Participate
ess low call option	477,913,125		472,200,133		36,516	465,758,297		457,301,157	*	457,301,157 451,481,656	\$ 451,48 442,71		\$	442,712,541 424,280,684	5 424,280,684 408,011,420	\$	408,011,42
stal Value to Allocate	\$ 573,086,875		5,712,992		63,616	\$ 3,778,219		8,457,140	5	5,819,502		9,115	5	18,431,857	\$ 16,269,264	5	408,011,42
eletred Share Classes	-	-			and in case of the		-	0,101,110	-	0,010,001	0,10		-	10,451,051	3 10,203,204	-	400,011,42
Senes A @ \$0.150			5,948,007	45.3	20,045	45,320,045		46,320,045		46,320,045	46,32	0.45		46,320,045	45,320,045		46,320.04
Series B @ 50.1846			10,000,000		52,965	54 162,965		54,162,965		54,162,965	54,163			54.162.965	54,162,965		
Series C @ \$0.564	33 217 403		(algenting a		96,105	58,696,105		58,896,105		58,895,105	55,89			58,895,105	58,896,105		56,696,1
Series C-1 @ \$3.00	65,841,003				47,001	21,947,001		21,947,001		21.947.001							
Series C-1 @ \$15.00	98,448,480				63,232	6,563,233		5,563,232		teache an freeze	21,94			21,947,001	21.947,001		21,947.0
Series C-2 @ \$17.00	730,109,863		0		47,639	42,947,63		42,947.639		6.563,232 42,947,639	6,56			6,563,232 42,947,639	6,563,232		6,563,2
						31,041,00	•	42,041,002		44/241/022	42/24	,000		42,047,030	42,947,639		42,947,6
arrants on Common Exercise Price @ \$0.072			- 22					-			74	665		741,665	741,665		741,6
mmon	~			302.9	65,725	302,965,725	5	302,965,725		302,955,725	302,96	5.725		302,965,725	302,965,725		302 965 7
										a second a second	0.4450	w 45		distant of			
Exercise Price @ \$0.015	1				~	350;000		350,000		350,000	35	0,000		350,000	350,000		350.0
Exercise Price @ \$0.030								1,170,875		1,170,875		0.875		1,170,875	1 170,875		1,170,8
Exercise Price @ \$0.065			×		12					547,500		7,500		547,500	547,500		547.5
Exercise Price @ \$0.072			-		1.1						2,57			2,579,175	2,579,175		2,579,1
Exercise Price @ \$0 094			2		-			-			-940			312,500	312,500		312.5
Exercise Price @ \$0 170			~		-			1.2		- i -		S			3,972,457		3,972,4
Exercise Price @ \$0.206	-	1		-	-					û ;		10.1		-			606.
	927,616,749	_	16,948,007	533,8	02,712	534,152,712	_	535,323,587	_	535,871,087	539,19	927	_	539,504,427	543,476,884		544,083,2
tribution Percentage	_										_		_		-	-	
ferred Share Classes														1.0			
Series A @ \$0.150	0.09		41.0%		8.7%	3.7		8.7%		8.6%		8.6%		8.6%	8.5%		8
Series B @ \$0,1846	0.05		59.0%		10.1%	10.1	96	10.1%		10 1%		10 0%		10.0%	10.0%		10
Series C @ \$0.564	3,69		0.0%		11 0%	11.0	%	11.0%		11.0%		10.9%		10,9%	10.8%		10
Series C-1 @ \$3.00	7 15		D.D%		4.1%	4.11		4.1%		4.1%		4.1%		4 1%	4 0%		4
Series C-1 @ \$15.00	10.69		0.0%		1.2%	1 2	%	1.2%		1 2%		1.2%		1.2%	1.2%		
Series C-2 @ \$17.00	78.75	6	0.0%		6.0%	8.0	36	8.0%		8 0%		8 0%		5.0%	7.9%		7
arrants on Common	0.0				1.1												
Exercise Price @ \$0.072	0.04		0.0%		0.0%	0.0		0.0%		0.0%		0.1%		0.1%	0.1%		0
ommon	0.09	6	0.0%		56.8%	56.7	96	56.6%		56.5%		56.2%		55.2%	55.7%		55
tions on Common																	
Exercise Price @ \$0.015	0.09	é.	0 0%		0.0%	0.1	36	0.1%		0 1%		0.1%		0.1%	0.156		0
Exercise Price @ \$0.030	0.03	6	0.0%		0.0%	0.0	96.	0.2%		0.2%		0 2%		0.2%	0.2%		0
Exercise Price @ \$0.066	0.09	6	0.0%		W0.0	0.0	%	0.0%		D 196		0.1%		0.1%	0.195		0
Exercise Price @ \$0.072	0.01	6	0.0%		0.0%	0.0	16	0.0%		0.0%		0.5%		0.5%	0.5%		C
Exercise Price @ \$0 094	0.09		0 0%		0.0%	0.0		0.0%		0.0%		0.0%		0.1%	0.1%		0
Exercise Price @ \$0.170	0.01		0.0%		0.0%	0.0		0.0%		0.0%		0.0%		0.0%	0.7%		
Exercise Price @ \$0 206	0.01		0.0%		0.0%	0,0		0.0%	_	0.0%		0.0%		0.0%	0.0%	-	(
ocation of Value	100.01		100,0%		100.0%	100.0		100.0%	-	100.0%		00.0%	-	100.0%	100.0%	-	100
ferred Share Classes																	
Series A @ \$0 150	\$ -	5	2,342,099		31 132			731,773	5	503,031	\$ 75	3,323	\$	1,582,498	\$ 1,386,615	5	34,735,
Series B @ \$0 1846	1. S. S. S. S.		3,370,893	2	70,267	383,11	1	855,676		588,204		0,876		1,850,446	1,621,397		40,617,
Series C @ 50 564	20,521,900		- G		93,885	416,58	9	930,451		639,605		7,853		2,012,151	1.763,086		44.166,
Series C-1 @ \$3.00	40,676,944		-	1	09,513	155,23		346,723		238,342		5,934		749,807	656,995		16,458.
Series C-1 @ \$15.00	60,822,025		-		32.750	46,42		103.667		71,276		5,741		224,229	196,474		4,921,
Series C-2 @ \$17 00	451,066,003		8	2	14,304	303,75	Ţ	678,495		466,407	69	8,476		1,467,281	1,285,660		32.206
rrants on Common Exercise Price @ \$0.072												2.062		75 330	22.202		
	-				-					Sec. 2				25,339	22,202		556,
mmon				5,5	11,765	2,142,96	5	4,786,308		3,290,175	4,92	7,264		10,350,649	9,069,437		227,195,
tions on Common						2,47	ġ.	5,529		3,801		6 000			12.43		-
Exercise Price @ \$0,015						2.47						5,692		11,958	10,477		262,
Exercise Price @ \$0.030 Exercise Price @ \$0.066	-		5		÷.			18,498		12,716 5,946		9,042		40,002	35,051		876.
			10		5					5,946					16,390		410;
Exercise Price @ \$0.072			-		1						4	1,946		88,116	77,209		1,934
Exercise Price @ \$0.094 Exercise Price @ \$0.170	1		7									1		10,676	9,355		234,
Exercise Price @ \$0.206					-2-							2		12	118,915		2,978.9
PUPIPIDE LINE R 30 200	\$ 573,086,875	5	5,712,992	\$ 2.6	63,616	\$ 3,778,21		8,457,140		5,819,502		9,115	_	18,431,857	5 16,269,264	-	104,



									DCF Equity Alloca	ation 10/15/15 - Ste
s of October 15, 2015										(US
Break Point Calculation				\$0.015	\$0.030	\$0.066	\$0.072	\$0.094	\$0.170	\$0.206
Share Class	Number of Shares	Series C, C-1, C-2 Lig. Preference	Series A, B Liq. Preference	\$0.015 Options Exercise	\$0.03 Options Exercise	\$0.066 Options Exercise	Options on Common Ex.	\$0.094 Options Exercise	\$0.170 Options Exercise	\$0.206 Options Exercise
Preferred Share Classes										
Series A @ \$0,150	46,320,045	s -	s 6,948,007	\$ 7,642,807	\$ 9,032,409	\$ 12,089,532	\$ 15,424,575	\$ 19,778,659	5 27,653,067	\$ 37,194,99
Series B @ \$0.1846	54,162,965		10,000,000	10,812,444	12,437,333	16,012,089	19,911,822	25,003,141	34,210,845	45,368,41
Series C @ \$0.564	58,896,105	33,217,403	33,217,403	34,100,845	35,867,728	39,754,871	43,995,390	49,531,624	59,543,962	71,676,56
Series C-1 @ \$3.00	21,947,001	65,841,003	65,841,003	66,170,208	66,828,618	68,277,120	69,857,304	71,920,322	75,651,312	80,172,39
Series C-1 @ \$15.00	6,563,232	98,448,480	95,448,480	98,546,928	98,743,825	99,176,999	99,649,551	100,266,495	101,382,245	102,734,27
				A CALL STORE STORE		1		742,006,359	749,307,458	758,154,67
Series C-2 @ \$17.00	42,947,639	730,109,863	730,109,863	730,754,078	732,042,507	734,877,051	737,969,281	742,000,359	749,307,458	/ 38, 134,07
Varrants on Common										
Exercise Price @ \$0.072	741,665		~					16,317	72,683	99,38
Common	302,965,725	-	1.1	4,544,486	9,088,972	19,995,738	21,813,532	28,478,778	51,504,173	62,410,93
Options on Common										
Exercise Price @ \$0.015	350,000				5,250	17,850	19,950	27,650	54,250	66,85
Exercise Price @ \$0.030	1,170,875					42,152	49,177	74,936	163,923	206,07
Exercise Price @ \$0.066	547,500						3,285	15,330	56,940	76,6
Exercise Price @ \$0.072	2,579,175			2				56,742	252,759	345.60
Exercise Price @ \$0.094	312,500	1			2.			College	23,750	35.00
	3,972,457								201.00	143,00
Exercise Price @ \$0.170	606,365									140,00
Exercise Price @ \$0.206	000,305			<u> </u>						
	544,083,249	927,616,749	944,564,756	952,571,797	964,046,642	990,243,401	1,008,693,868	1,037,176,354	1,099,877,367	1,158,684,82
		Series C, C-1, C-2 Liq. Preference	Series À, B Liq. Preference	\$0.016 Options Exercise	\$0.03 Options Exercise	\$0.066 Options Exercise	\$0,072 Warrants / Options on Common Ex.	\$0.094 Options Exercise	\$0.170 Options Exercise	\$0.206 Options Exercise
nputs						and the second sec				
Stock Price Now	\$ 1,184,000,000	S 1,184,000,000	S 1,184,000,000	\$ 1,184,000,000	\$ 1,184,000,000	\$ 1,184,000,000	\$ 1,184,000,000	5 1,184,000,000	\$ 1,184,000,000	5 1,184,000.00
Volatility	53.0%	53.0%	53.0%	53.0%	53.0%	53.0%	53,0%	53.0%	53.0%	53.0
	1.12%	1.12%	1.12%	1.12%	1.12%	1.12%	1.12%	1.12%	1,12%	1.43
Riskfree Rate - Annual	1.1270							A	\$ 1,099,877,367	5 1,158,684,83
Riskfree Rate - Annual		\$ 927,616,749	\$ 944,564,756	\$ 952,571,797	\$ 964,046,642	\$ 990,243,401	\$ 1,008,693,868	\$ 1,037,176,354	a 1,033,077,307	
			\$ 944,564,756 4.00		\$ 964,046,642 4.00	\$ 990,243,401 4.00	\$ 1,008,693,868 4.00	\$ 1,037,176,354 4.00	4,00	4.
Riskfree Rate - Annual Exercise Price Time To Maturity - Years	\$ 0.00	\$ 927,616,749								4.
Riskfree Rate - Annual Exercise Price Time To Maturity - Years Dutputs	\$ 0.00 4.00	\$ 927,616,749 4.00	4.00	4.00			4.00			
Riskfree Rate - Annual Exercise Price Time To Maturity - Years Dutputs d1	\$ 0.00 4.00 39.83	\$ 927,616,749 4.00 0.80	4.00	4.00	4.00	4.00	4.00	4.00	4.00	0.
Riskfree Rate - Annual Exercise Price Time To Maturity - Years Dutputs d1 d2	\$ 0.00 4.00 39.83 38.77	\$ 927,616,749 4,00 0,80 (0.26)	4.00 0.79 (0.27	0.78 (0.28)	4.00 0.77 (0.29)	4.00 0.74 (0.32)	0.72 (0.34)	4.00 0.70 (0.36)	4.00 0.64 (0.42)	0.9 (0.4
Riskfree Rate - Annual Exercise Price Time To Maturity - Years Dutputs d1 d2 N(d1)	\$ 0.00 4.00 39.83 38.77 1.000	\$ 927,616,749 4,00 0,80 (0,26) 0,789	4.00 0.79 (0.27 0.784	0.78 (0.28) 0.782	4.00 0.77 (0.29) 0.778	0.74 (0.32) 0.771	0.72 (0.34) 0.765	4.00 0.70 (0.36) 0.757	4.00 0.64 (0.42) 0,739	0. (0.
Riskfree Rate - Annual Exercise Price Time To Maturity - Years Dutputs d1 d2	\$ 0.00 4.00 39.83 38.77	\$ 927,616,749 4,00 0,80 (0.26)	4.00 0.79 (0.27	0.78 0.78 0.782 0.782 0.782 0.389	4.00 0.77 (0.29)	4.00 0.74 (0.32)	0.72 (0.34) 0.765	4.00 0.70 (0.36)	4.00 0.64 (0.42)	0. (0. 0.3
Riskfree Rate - Annual Exercise Price Time To Maturity - Years d1 d2 N(d1) N(d2) Call Price (V _e)	\$ 0.00 4.00 39.83 38.77 1.000 1.000 \$ 1,184,000,000	\$ 927,616,749 4,00 0,80 (0,26) 0,789 0,398 \$ 580,651,525	4.00 0.79 0.784 0.784 0.395 \$ 574,248,897	0.78 (0.28) 0.782 0.782 0.389 \$ 571,260,795	4.00 0.77 (0.29) 0.778 0.384 \$ 567,019,077	0.74 (0.32) 0.771 0.375 \$ 557,510,633	0.72 (0.34) 0.765 0.368 \$ 550,956,552	4.00 0.70 (0.36) 0.767 0.358 5 541,063,210	4.00 0.54 (0.42) 0.739 0.338 \$ 520,199,568	0. (0. 0. 3. \$ 501,705,0
Riskfree Rate - Annual Exercise Price Time To Maturity - Years d1 d2 N(d1) N(d2) Call Price (Ve) -d1	\$ 0.00 4.00 39.83 38.77 1.000 1.000 \$ 1,184,000,000 -39.832	\$ 927,616,749 4,00 0,80 (0,26) 0,789 0,398 \$ 580,651,525 -0,802	4.00 0.79 (0.27 0.78 0.392 \$ 574,248,897 -0.784	4.00 0.78 (0.28) 0.782 0.389 \$ 571,260,795 5 -0.777	4.00 0.77 (0.29) 0.778 0.384 \$ 567,019,077 -0.766	4.00 0.74 (0.32) 0.771 0.375 \$ 557,510,633 -0.741	0.72 (0.34) 0.765 0.368 \$ 550,956,552 -0.723	4.00 0.70 (0.36) 0.767 0.358 5 541,063,210 -0.697	4.00 0.54 (0.42) 0.739 0.338 \$ 520,199,588 -0.642	0. (0. 0.3 \$ 501,705,0
Riskfree Rate - Annual Exercise Price Time To Maturity - Years d1 d2 N(d1) N(d2) Call Price (V _e)	\$ 0.00 4.00 39.83 38.77 1.000 1.000 \$ 1,184,000,000	\$ 927,616,749 4,00 0,80 (0,26) 0,789 0,398 \$ 580,651,525	4.00 0.79 0.784 0.784 0.395 \$ 574,248,897	4.00 0.78 0.782 0.782 0.389 5 571,260,795 5 -0.777 5 0.283	4.00 0.77 (0.29) 0.778 0.384 \$ 567,019,077 -0.766 0.294	4.00 0.74 (0.32) 0.771 0.375 \$ 557,510,633 -0.741 0.319	0.72 (0.34) 0.765 0.368 \$ 550,956,552 -0.723 0.337	4.00 0.70 (0.36) 0.757 0.358 5 541,063,210 -0.697 0.363	4.00 0.54 (0.42) 0.739 0.338 \$ 520,199,568 -0.642 0.418	0. (0. 0.3 \$ 501,705,0 -0.9
Riskfree Rate - Annual Exercise Price Time To Maturity - Years d1 d2 N(d1) N(d2) Call Price (Ve) -d1	\$ 0.00 4.00 39.83 38.77 1.000 1.000 \$ 1,184,000,000 -39.832	\$ 927,616,749 4,00 0,80 (0,26) 0,789 0,398 \$ 580,651,525 -0,802	4.00 0.79 (0.27 0.78 0.392 \$ 574,248,897 -0.784	4.00 0.78 0.782 0.782 0.389 \$ 571,260,795 5 -0.777 5 0.283	4.00 0.77 (0.29) 0.778 0.384 \$ 567,019,077 -0.766	4.00 0.74 (0.32) 0.771 0.375 \$ 557,510,633 -0.741	4.00 0.72 (0.34) 0.765 0.368 \$ 550,956,552 -0.723 0.337 0.235	4.00 0.70 (0.36) 0.757 0.358 \$ 541,063,210 -0.697 0.363 0.243	4.00 0.54 (0.42) 0.739 0.338 \$ 520,199,568 \$ 520,199,568 -0.642 0.418 0.261	0. (0. 0.3 0.3 \$ 501,705,0 -0.4 0.0
Riskfree Rate - Annual Exercise Price Time To Maturity - Years 01 d2 N(d1) N(d2) Call Price (Ve) -d1 -d2	\$ 0.00 4.00 39.83 38.77 1.000 1.000 \$ 1,184,000,000 -39.832 -38.772	\$ 927,616,749 4,00 0,80 (0,26) 0,789 0,398 \$ 580,651,525 -0,802 0,258	4.00 0.79 (0.27 0.784 0.392 \$ 574,248,897 -0.788 0.275	4.00 0.78 0.782 0.782 0.782 0.389 5.571,260,795 5.0.777 5.0.283 5.0.218	4.00 0.77 (0.29) 0.778 0.384 \$ 567,019,077 -0.766 0.294	4.00 0.74 (0.32) 0.771 0.375 \$ 557,510,633 -0.741 0.319	4.00 0.72 (0.34) 0.765 0.368 \$ 550,956,552 -0.723 0.337 0.235	4.00 0.70 (0.36) 0.757 0.358 5 541,063,210 -0.697 0.363	4.00 0.54 (0.42) 0.739 0.338 \$ 520,199,558 -0.842 0.418 0.261 0.662	0.: (0 0.7 0.3 \$ 501,705,0 -0.5 0.2 0.2 0.5
Riskfree Rate - Annual Exercise Price Time To Maturity - Years 0utputs d1 d2 N(d1) N(d2) Call Price (Ve) -d1 -d2 N(-d1)	\$ 0.00 4.00 39.83 38.77 1.000 1.000 \$ 1,184,000,000 -39.832 -38.772 0.000	\$ 927,616,749 4,00 0,80 (0,26) 0,789 0,398 \$ 580,651,525 -0,802 0,258 0,211	4.00 0.79 (0.27 0.784 0.392 \$ 574,248,897 -0.788 0.276 0.276	4.00 0.78 0.028) 0.782 2.0389 \$ 571,260,795 5.0283 5.0218 3.0611	4.00 0.77 (0.29) 0.778 0.384 \$ 567,019,077 -0.766 0.294 0.222	4.00 0.74 (0.32) 0.771 0.375 \$ 557,510,633 -0.741 0.319 0.229	4.00 0.72 (0.34) 0.765 0.368 \$ 550,956,552 -0.723 0.337 0.235	4.00 0.70 (0.36) 0.757 0.358 \$ 541,063,210 -0.697 0.363 0.243	4.00 0.54 (0.42) 0.739 0.338 \$ 520,199,568 \$ 520,199,568 -0.642 0.418 0.261	0. (0. 0. 3. 501,705,0 -0. 0. 0.



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 119 of 156

uation of Theranos, Inc.								-			-		DCF Equity Alloc	ation	
of October 15, 2015	Series C, C-1, C-2	Series A. I	B Lia.	\$0.015 Options	\$0.03 Opti	ons	\$0.066 Options		072 Warrants / Options on	\$0.094 Options	50	.170 Options	\$0.206 Options		(US
	Liq. Preference	Profere	nce	Exercise	Exercis	Đ	Exercise	C	ommon Ex.	Exercise	- 11	Exercise	Exercise	2	Participate
gh call oplion	5 1,184,000,000		C. 1996-1997	5 574,248,897	\$ 571,26		5 567,019,077	5	557,510,633	\$ 550,956,552	\$	541,063,210	\$ 520,199,568	5	501,705,04
ss low call option la! Value to Allocate	580,651,525 5 603,348,475		48,897	571,260,795	567,01		557,510,633	-	550,956,552	541,063,210	-	520,199,568	501,705,043	-	
	5 603,348,475	5 6,4	02,628	\$ 2,988,102	5 4.24	1.718	\$ 9,508,444	5	6,554,081	\$ 9,893,342	5	20,863,642	\$ 18,494,525	5	501,705,0
erred Share Classes							the same star		Sector.	in the second		ALCOLO R MAN			
Senes A @ \$0.150			45,007	46,320,045	46,32		46,320,045		46,320,045	46,320,045		46,320,045	46,320,045		46,320,0
Series B @ \$0.1846 Series C @ \$0.564	33 217,403	10,0	00,000	54,162,965 58,896,105	54,16		54,162,965 58,896,105		54,162,965 58,895,105	54,162,965		54,162,965	54,162,965		54,162,9
Series C-1 @ \$3.00	65.841.003		~	21,947,001	21,94		21,947,001		21,947,001	58,895,105 21,947,001		58,896,105 21,947,001	58,896,105		58,896
Series C-1 @ \$15.00	98,448,480			6,563,232		3,232	6,563,232		6,563,232	6,563,232		6,563,232	21,947,001 5,563,232		21,947,0 6,563,0
Series C-2 @ \$17 00	730,109,863		-	42,947,639	42,94		42,947,639		42,947,639	42,947,639		42,947,639	42,947,639		42,947,6
ants on Common									11110						
Exercise Price @ \$0.072						÷ .	*			741,665		741,665	741,665		741,6
imon			-	302,965,725	302.96	5,725	302,965,725		302,965,725	302,965,725		302,965,725	302,965,725		302,965,7
ons en Common															
Exercise Price @ \$0.015	1		4	1	35	000,0	350,000		350,000	350,000		350,000	350,000		350,0
xercise Price @ \$0,030			1	5			1,170,875		1,170,875	1,170,875		1,170,875	1,170,875		1,170,
Exercise Price @ \$0.066			÷	-		-			547,500	547,500		547,500	547.500		547,
Exercise Price @ \$0.072				1.00		100				2,579,175		2,579,175	2,579,175		2,579,
xercise Price @ \$0.094				-		-	-					312,500	312,500		312.
xercise Price @ \$0.170			- Y	5		*	3		-				3,972,457		3,972,
Exercise Price @ \$0.206	927,616,749	16,9	48,007	533,802,712	534,15	2,712	535,323,567	-	535,871,087	539,191,927	-	539,504,427	543,476,884	-	606. 544,083;
ribution Percentage	-							-			-			-	
erred Share Classes	0.0%		44.004	0.75		0.70	0.710		0.000	0.00		4			
Series A @ \$0 150	0.0%		41.0%	8.7% 10.1%		8.7%	8.7W		8 6%	8.6%		8.6%	8.5%		8
Series B @ \$0.1845 Series C @ \$0.564	3 5%		0.0%	11.0%		11.0%	11.0%		11 0%	10.0%		10.0%	10.0%		10
Series C-1 @ \$3.00	7 1%		0.0%	4 1%		4 156	4 1%		4.1%	4 1%		4.1%	4 0%		1
Series C-1 @ \$15 D0	10 6%		0.0%	1.2%		1.2%	1 2%		1,2%	1 2%		1.2%	1 2%		
Series C-2 @ \$17.00	78,7%		0.0%	8.0%		8.0%	8.0%		8 0%	8.0%		8.0%	7.9%		7
rants on Common															
Exercise Price @ 50.072	0.0%		0.0%	0.0%		0.0%	0.0%		0.0%	0.1%		0.1%	0.1%		D
nmon	0.0%		0.0%	56.8%		56.7%	56 6%		56.5%	56.2%		56.2%	55 7%	0	55
ions on Common															
Exercise Price @ \$0.015	0.0%		0.0%	0.0%		0.1%	0.1%		D 1%	0.1%		0.1%	0 1%		1
Exercise Price @ 50.030	0.0%		0.0%	0.0%		0 0%	D 2%		0.2%	0.2%		0.2%	0 2%		1
Exercise Price @ 50.066	0.0%		0.0%	0.0%		0.0%	0.0%		0.1%	0.1%		0.1%	0.1%		1
Exercise Price @ \$0.072	0.0%		0.0%	0.0%		0.0%	0.0%		0.0%	0.5%		0.5%	0.5%		1
Exercise Price @ \$0.094 Exercise Price @ \$0.170	0.0%		0.0%	0.0%		0.0%	0.0%		0.0%	0.0%		0.1%	01%		1
Exercise Price @ \$0.170 Exercise Price @ \$0.206	0.0%		0.0%	0.0%		0.0%	0.0%		0.0%	D.0%		0.0%	0.0%		
	100.0%		100.0%	100.0%	-	00.0%	100.0%	_	100.0%	100.0%	Ξ	100.0%	100.0%		10
cation of Value erred Share Classes															
Series A @ \$0.150	5 -	\$ 2,6	24.822	\$ 259,289	5 36	7.828	5 822,739	5	566,527	\$ 849,902	\$	1,791,282	5 1,576,272	s	42,712
Series B @ \$0,1845		3.7	77,806	303,191		0,109	962,045		662,451	993,807		2,094,583	1.843,166		49,944
Series C @ \$0.564	21,605,549			329,686		7,695	1,046,116		720,341	1,080,653		2,277,622	2,004,235		54,308,
Series C-1 @ \$3.00	42,824,872		100	122,854		4,282	389,624		268,427	402,694		848,731	746,857		20,237,
Series C-1 @ \$15.00 Series C-2 @ \$17.00	64.033.708 474,884,345		81	36,739		2,119	116,576 762,838		80,273 525,280	120.425 788.023		253,812 1,660,865	223,347 1,461,509		6,052, 39,602,
	an all an all all all all all all all al			(ending)	3	Ser.	stadin.					11.00,000	1112 112 12		
rrants on Common Exercise Price @ \$0,072			-			4	- k		4	13,605		28,682	25,239		683
mon			-	1,695,951	2;4	5,857	5,381,292		3.705,484	5,558,955		11.716,249	10,309,927		279,367
ions on Common															
Exercise Price @ \$0.015			1.0	0		2,779	6,217		4,281	6,422		13,535	11,011		322
Exercise Price @ \$0.030			-	~			20,797		14.321	21,484		45,280	39,045		1.079.
Exercise Price @ \$0 066			~	~		2.0			6,696	10,046		21,173	18,631		504
Exercise Price @ \$0.072			5	8		-	~		-	47,324		99,742 12,085	87.769 10,634		2,378
															288,
Exercise Price @ \$0.094			- C.			1.5						12,000			
Exercise Price @ \$0 094 Exercise Price @ \$0 170 Exercise Price @ \$0.206			2	÷		÷			-	ŝ		-	135,183		3,663,



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 120 of 156

US v. Elizabeth Holmes	Exhibit R.1
Business Valuation	Volatility Analysis 2/7/14
As of February 7, 2014	(thousands of USD)

		LTM		Market	Revenue	Growth	Enterpr	ise		Equity	Asset
Guideline Companies	Ticker	Rev. Size	Ca	pitalization	1 Year	3 Year	Value	(c)	Debt	Volatility [1]	Volatility
Quest Diagnostics Incorporated	DGX	\$ 7,146,000	\$	7,315,200	-3.2%	-0.5%	\$ 10,681	,200	\$ 3,366,000	21.1%	15.09
Enzo Biochem, Inc.	ENZ	92,929		138,102	-7.3%	-1.8%	142	2,094	3,992	52.1%	50.79
Exact Sciences Corporation	EXAS	4,144		865,903	0.0%	-8.1%	867	,614	1,711	46.9%	46.89
Illumina, Inc.	ILMN	1,421,178		19,831,532	23.7%	16.3%	20,700	0,125	868,593	43.6%	41,99
Standard BioTools Inc.	LAB	71,183		1,104,200	36.0%	28.5%	1,104	,200	1.00	38.7%	38.79
Laboratory Corporation of America Holdings	LH	5,808,300		7,791,710	2.4%	5.1%	10,792	2,110	3,000,400	18.2%	13.39
Myriad Genetics, Inc.	MYGN	737,115		2,351,966	35.2%	25.0%	2,351	,966	· · · · · · · · · · · · · · · · · · ·	40.0%	40.09
OraSure Technologies, Inc.	OSUR	98,940		337,504	12.7%	9.7%	337	,504	1.00	50.0%	50.09
PerkinElmer, Inc.	PKI	2,157,586		4,920,548	2.5%	8.2%	5,855	.276	934,728	27.0%	22.99
QuidelOrtho Corporation	QDEL	177,325		964,525	13.9%	16 1%	970	0,092	5,567	31.5%	31.3
Qiagen N.V.	QGEN	1,301,984		5,280,047	3.8%	6.2%	6,130	0,249	850,202	25.0%	21.6
Trinity Biotech plc	TRIB	91,216		545,805	10.6%	0.6%	545	5,805		27.8%	27.8
Alere Inc.	IQT2622336	2,608,636		2,819,163	8.9%	6.6%	6,660	0,267	3,841,104	37.0%	21.5
Luminex Corporation	IQT2627430	213,423		734,789	5.4%	14,7%	736	6,446	1,657	34.5%	34.4
Abaxis, Inc.	IQT2586525	179,781		824,250	0.6%	8.7%	824	1,956	706	35.6%	35.6
CombiMatrix Corporation	IQT36309071	6,367		25,342	19.0%	21.5%	25	5,575	233	101.9%	101.1
Affymetrix Inc.	IQT2587418	330,399		518,522	11.8%	2.1%	662	2,983	144,461	56.4%	46.8
Genomic Health, Inc.	IQT24111615	261,595		815,172	11.2%	13.7%	815	5,172		39.3%	39.3
Cepheid	IQT2599314	401,292		3,328,663	21.2%	23.6%	3,328	3,663		42.2%	42.2
Nanosphere, Inc.	IQT38720096	10,002		169,146	97.0%	70.3%		0,961	11,815	73.8%	69.8
GenMark Diagnostics, Inc.	IQT106626443	27,404		513,559	33.9%	120.3%	513	3,596	37	49.7%	49.7
Bio-Reference Laboratories, Inc.	IQT2594421	735,368		723,947	15.5%	15.2%	776	6,577	52,630	40.1%	37.5

						Sele	cted Equity	Volat	ility	55.0%	
Theranos, Inc.	\$ ~	5	404,500	NA	NA	\$	446,886	\$	42,386	55.0%	50.2%
Relevered for Subject Company Capital Structure						Sele	cleu Assel	volati	iity		50.0%
						C	cted Asset \	falle in	114-1		50.09/
						Med					39.0%
						Aver	age				39,9%
						Low	er Quartile				28.7%
						Upp	er Quartile				46.8%

Notes: [1] Source: Capital IQ.

[2] Note: Ticker symbols beginning with IQT represent companies that have been acquired since the valuation date and necessary to access the historical data using CapitalIQ.



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 121 of 156

US v. Elizabeth Holmes	Exhibit R.2
Business Valuation	Volatility Analysis 12/31/14
As of December 31, 2014	(thousands of USD)

		LTM	Market	Revenue	Growth	Enterprise		Equity	Asset
Guideline Companies	Ticker	Rev. Size	Capitalization	1 Year	3 Year	Value	Debt	Volatility [1]	Volatility
Quest Diagnostics Incorporated	DGX	\$ 7,435,000	\$ 9,692,466	4.0%	0.2%	\$ 13,462,466	\$ 3,770,000	20.8%	15.6%
Enzo Biochem, Inc.	ENZ	96,637	218,928	4.8%	-1.8%	222,966	4,038	52.1%	51.3%
Exact Sciences Corporation	EXAS	1,798	2,430,718	-56.6%	-24.4%	2,434,478	3,760	45.0%	44.9%
Illumina, Inc.	ILMN	1,861,358	26,210,360	31.0%	20.8%	27,501,396	1,291,036	44.1%	42.1%
Standard BioTools Inc.	LAB	116,456	953,006	63.6%	39.5%	1,148,461	195,455	43.8%	37.1%
Laboratory Corporation of America Holdings	LH	6,011,600	9,117,550	3.5%	2.7%	12,147,350	3,029,800	18.7%	14.3%
Myriad Genetics, Inc.	MYGN	724,873	2,485,880	-1.7%	17.8%	2,485,880	-	40.5%	40.5%
OraSure Technologies, Inc.	OSUR	106,464	568,416	7.6%	9.1%	568,416		50.3%	50.3%
PerkinElmer, Inc.	PKI	2,069,880	4,939,852	-4,1%	2.6%	5,986,320	1,046,468	25.1%	21.0%
QuidelOrtho Corporation	QDEL	184,158	995,160	3.9%	5.1%	1,138,244	143,084	31.9%	28.19
Qiagen N.V.	QGEN	1,344,777	5,425,828	3.3%	4.8%	6,599,032	1,173,204	23.8%	19.89
Trinity Biotech plc	TRIB	104,872	392,493	15.0%	10.4%	392,493	12	25.5%	25.5%
Alere Inc.	IQT2622336	2,577,001	3,175,128	-1.2%	2.6%	6,901,222	3,726,094	35.8%	21.39
Luminex Corporation	IQT2627430	226,983	803,551	6.4%	7.2%	803,551		35.2%	35.29
Abaxis, Inc.	IQT2586525	182,777	1,280,721	1.7%	6.5%	1,281,326	605	34.5%	34.6%
CombiMatrix Corporation	IQT36309071	8,042	14,271	26.3%	20.0%	14,676	405	100.5%	98.5%
Affymetrix Inc.	IQT2587418	349,019	726,274	5.6%	9,3%	854,224	127,950	50.6%	43.9%
Genomic Health, Inc.	IQT24111615	275,706	1,014,152	5.4%	10.2%	1,014,152		36.7%	36.79
Cepheid	IQT2599314	470,141	3,815,841	17.2%	19.2%	4,094,054	278,213	39.2%	36.69
Nanosphere, Inc.	IQT38720096	14,290	45,675	42.9%	78.0%	55,391	9,716	82.1%	73.6%
GenMark Diagnostics, Inc.	IQT106626443	30,594	568,004	11.6%	82.8%	568,004	1.0	46.7%	46.79
Bio-Reference Laboratories, Inc.	IQT2594421	832,282	890,901	16.3%	16.8%	946,330	55,429	39.7%	37.5%

					Med					38.9% 36.9%
Relevered for Subject Company Capital Structure					Sele	cted Asset V	/olatil	ity	1	50.0%
US v. Elizabeth Holmes	\$ -	\$ 889,000	NA	NA	s	929,805	\$	40,805	52.6%	50.4%

Notes: [1] Source: Capital IQ. [2] Note: Ticker symbols beginning with IQT represent companies that have been acquired since the valuation date and necessary to access the historical data using CapitalIQ.



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 122 of 156

US v. Elizabeth Holmes	Exhibit R.3
Business Valuation	Volatility Analysis 10/15/15
As of October 15, 2015	(thousands of USD)

		LTM		Market	Revenue	Growth	1	Enterprise		Equity	Asset
Suideline Companies	Ticker	Rev. Size	C	apitalization	1 Year	3 Year		Value	Debt	Volatility [1]	Volatility
Quest Diagnostics Incorporated	DGX	\$ 7,527,000	\$	9,197,441	3.0%	0.7%	\$	12,928,441	\$ 3,731,000	20.7%	15.39
Enzo Biochem, Inc.	ENZ	97,599		181,945	1.7%	-1.8%		185,531	3,586	51.2%	50.2%
Exact Sciences Corporation	EXAS	26,521		713,931	1894.1%	85.6%		720,087	6,156	57.5%	57.0%
Illumina, Inc.	ILMN	2,140,593		21,971,248	23.3%	25.3%		23,081,349	1,110,101	37.8%	36.0%
Standard BioTools Inc.	LAB	117,480		266,171	13.1%	33.2%		461,797	195,626	53.0%	38.39
Laboratory Corporation of America Holdings	LH	7,773,600		11,664,918	31.0%	11.3%		18,346,118	6,681,200	18.3%	12.09
Myriad Genetics, Inc.	MYGN	737,800		2,711,591	-0.9%	12.4%		2,711,591	1.	40.2%	40.29
OraSure Technologies, Inc.	OSUR	116,018		267,159	8.9%	9.1%		267,159		46.9%	46.99
PerkinElmer, Inc.	PKI	2,262,633		5,470,749	1.9%	2.8%		6,499,125	1,028,376	22.9%	19.5%
QuidelOrtho Corporation	QDEL	205,670		620,241	22.0%	13.6%		766,938	146,697	32.3%	26.49
Qiagen N.V.	QGEN	1,292,856		5,912,561	-3.9%	1.3%		6,971,467	1,058,906	22.3%	19.09
Trinity Biotech plc	TRIB	101,392		271,362	-1.5%	7.5%		370,431	99,069	27.3%	20.49
Alere Inc.	IQT2622336	2,483,662		3,975,232	-4.0%	-2.9%		7,576,757	3,601,525	32.8%	19.9%
Luminex Corporation	IQT2627430	235,365		789,484	5.1%	6.5%		789,484		33.0%	33,09
Abaxis, Inc.	IQT2586525	217,133		1,017,036	29.6%	9.2%		1,017,566	530	31.8%	31.99
CombiMatrix Corporation	IQT36309071	9,621		13,695	27.0%	23.4%		14,039	344	100.5%	98.6%
Affymetrix Inc.	IQT2587418	357,744		714,389	2.8%	9.0%		839,339	124,950	45.1%	38.99
Genomic Health, Inc.	IQT24111615	281,451		715,559	2.2%	7.3%		715,559		35,8%	35.89
Cepheid	IQT2599314	523,099		2,388,029	15.8%	17.9%		2,673,435	285,406	36.7%	32.99
Nanosphere, Inc.	IQT38720096	18,871		16,632	44.5%	63.3%		32,106	15,474	81.6%	66.39
GenMark Diagnostics, Inc.	IQT106626443	36,051		353,067	34.0%	40.3%		362,861	9,794	46.6%	45.49
Bio-Reference Laboratories, Inc.	IQT2594421	882,467			16.1%	14.4%		69,849	69,849	41.4%	20.5%

						Upper Quartile Lower Quartile Average Median	44.1% 20.4% 36.6% 34.4%
Relevered for Subject Company Capital Structure						Selected Asset Volatility	50.0%
US v. Elizabeth Holmes	s	~	\$ 1,117,500	NA	NA	\$ 1,158,305 \$ 40,805	52.3% 50.5%
						Selected Equity Volatility	53.0%

Notes: [1] Source: Capital IQ.

[2] Note: Ticker symbols beginning with IQT represent companies that have been acquired since the valuation date and necessary to access the historical data using CapitalIQ.



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 123 of 156

US v. Elizabeth Holmes	Appendix Exhibit A
Valuation of Theranos, Inc.	Summary of Investor Values
Feb 2014 - Feb 2015	(thousands of USD)

Method	Reference	Value	Implied Annual Internal Rate of Return	Implied MVIC / EBITDA Exit Multiple
Investor Financing - Backsolve Method as of 2/7/14	Appendix Exhibit C.2	\$ 1,510,000	N/A	11.00
PFM Forecast - Income Approach with Market Exit as of 2/7/14 PFM Model - Income Approach as of 2/7/14	Appendix Exhibit E.3 Appendix Exhibit E.5	1,490,000 1,500,000	76% 36%	11.60x
Investor Financing - Backsolve Method as of 12/31/14	Appendix Exhibit D.2	\$ 2,250,000	N/A	
Mosley and RDV Forecast - Income Approach with Market Exit as of 12/31/14	Appendix Exhibit F.3	2,250,000	54%	13.90x
Investor Financing - Backsolve Method as of 2/13/15	[1]	\$ 2,375,000	N/A	
Murdoch Forecast - Income Approach with Market Exit as of 2/13/15	Appendix Exhibit G.3	2,370,000	82%	12.10x

Notes:

[1] 12/31/14 Backsolve Value + \$125 million additional C-2 proceeds.



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 124 of 156

US v. Elizabeth Holmes	Appendix Exhibit B.1
Valuation of Theranos, Inc.	Summary of Revenue Forecasts
Feb 2014 - Feb 2015	(thousands of USD)

	11 Mo. Ended For the Twelve Month Period Ending De							n Dec	December 31,				
		2/31/2014		2015		2016	WICHTE	2017	iy Dec	2018		2019	
Management Forecasts Provided to PFM - Feb 2014 Investment Lab Services from US Retail Pharmacies Lab Services Revenue from Physicians Offices (courier) Lab Services Revenue from Hospitals (courier) OnSite Services Revenue from Hospitals Pharmaceuticals Services Total Revenue	5	109,000 72,000 50,000	s	750,000 342,000 225,000 240,000 120,000									
lotal Revenue	3	261,000	\$	1,677,000		N/A		N/A		N/A		N/A	
PFM Financial Model (Base Case) - Feb 2014 Investment Retail Revenue Physicians Office Revenue Hospital (Courrier) Revenue Hospital (OnSite) Revenue Pharmaceutical Services Revenue Total Revenue	\$	198,986 32,571 43,313 	s	1,063,582 222,965 134,009 122,400 120,000 1,662,956	\$	2,172,705 346,500 167,511 360,000 170,000	5	2,871,036 388,080 192,638 432,000 220,000	\$	2,914,101 429,660 215,754 504,000 270,000	\$	2,960,24 469,45 238,40 576,52 323,38	
Total Revenue	\$	304,009	*	1,002,300		3,216,716	\$	4,103,754	\$	4,333,516	\$	4,568,01	
Management Forecasts Provided to Daniel Mosley - Oct 2014 Lab Services from US Retail Pharmacies Lab Services Revenue from Physicians Offices Lab Services Revenue from Hospitals OnSite Services Revenue from Hospitals Pharmaceuticals Services	\$	42,000 11,000 47,000 40,000	\$	470,000 161,000 290,000 11,000 62,000									
Total Revenue	5	140,000	\$	994,000		N/A	-	N/A	-	N/A	-	N//	
Management Forecasts Provided to RDV Corporation - Oct 2014 Lab Services from US Retail Pharmacies Lab Services Revenue from Physicians Offices Lab Services Revenue from Hospitals OnSite Services Revenue from Hospitals Pharmaceuticals Services	\$	42,000 11,000 47,000 	5	470,000 160,000 290,000 10,000 60,000									
Total Revenue	\$	140,000	\$	990,000	1	N/A	-	N/A		N/A		N/.	
Management Forecasts Provided to Rupert Murdoch - Feb 2015 Lab Services from US Retail Pharmacies Lab Services Revenue from Physicians Offices Lab Services Revenue from Hospitals OnSite Services Revenue from Hospitals Pharmaceuticals Services			\$	425,376 193,920 301,500 15,000 58,500	\$	993,720 380,160 489,600 20,160 93,600			_				
Total Revenue		N/A	\$	994,296	\$	1,977,240		N/A		N/A		N	
Management Forecasts Provided to Aranca - 9/30/13 Valuation Total Revenue	\$	89,702	s	112,202	\$	131,702	\$	143,402	,	N/A	0	N//	
Management Forecasts Provided to Aranca - 12/15/14 Valuation Total Revenue	\$	150	\$	113,452	\$	223,452	\$	323,452	\$	503,452		N/	
Management Forecasts Provided to Aranca - 3/25/15 Valuation Total Revenue		N/A	\$	113,452	\$	223,452	\$	323,452	\$	503,452		N/.	



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 125 of 156

US v. Elizabeth Holmes	Appendix Exhibit B.2
Valuation of Theranos, Inc.	Summary of Gross Profit Forecasts
Feb 2014 - Feb 2015	(thousands of USD)

		No. Ended	_		r	or the Twelve	Montr		ig Dec			
and the watch that the watch and the second and the second s	12	2/31/2014	-	2015	_	2016		2017	1.0	2018		2019
Management Forecasts Provided to PFM - Feb 2014 Investment Lab Services from US Retail Pharmacies Lab Services Revenue from Physicians Offices (courier) Lab Services Revenue from Hospitals (courier)	5	55,000 50,000 35,000	\$	412,000 239,000 157,000								
OnSite Services Revenue from Hospitals		-		168,000								
Pharmaceuticals Services		25,000		102,000	_							
Fotal Gross Profit Margin %	\$	165,000 63%	\$	1,078,000 64%		N/A		N/A		N/A		N/#
PFM Financial Model (Base Case) - Feb 2014 Investment												
Retail Revenue	\$	100,406	\$	584,261	s	1,215,266	\$	1,634,576	5	1,688,236	s	1,744.56
Physicians Office Revenue		22,619		155,815		242,145		271,202		300,259		328,06
Hospital (Courrier) Revenue		30,319		93,508		116,886		134,418		150,549		166,35
Hospital (OnSite) Revenue		- E -		85,680		252,000		302,400		352,800		403,56
Pharmaceutical Services Revenue		25.000		102,000		144,500		187,000		229,500		274,87
otal Gross Profit	\$	178,343	\$	1.021.264	\$	1.970,797	\$	2.529.597	\$	2,721,344	5	2.917.43
Margin %		58%		61%	1	61%		62%		63%		2,517,45
lanagement Forecasts Provided to Daniel Mosley - Oct 2014												
Lab Services from US Retail Pharmacies	5	26,000	\$	282,000								
Lab Services Revenue from Physicians Offices		7,000		97.000								
Lab Services Revenue from Hospitals		33,000		203,000								
OnSite Services Revenue from Hospitals		100717		8,000								
Pharmaceuticals Services		35.000		50,000								
otal Gross Profit	\$	101,000	\$	640,000	-	N/A		N/A	-	N/A	-	N/.
Margin %		72%		64%		444				146		
lanagement Forecasts Provided to RDV Corporation - Oct 2014												
Lab Services from US Retail Pharmacies	\$	26,000	5	282,000								
Lab Services Revenue from Physicians Offices		7,000		96,000								
Lab Services Revenue from Hospitals		33,000		203,000								
OnSite Services Revenue from Hospitals		1000		7,000								
Pharmaceuticals Services		35,000		48,000								
otal Gross Profit	\$	101,000	\$	636,000	-	N/A	-	N/A	-	N/A		N/.
Margin %		72%		64%								
lanagement Forecasts Provided to Rupert Murdoch - Feb 2015												
Lab Services from US Retail Pharmacies			\$	255,226	5	645,918						
Lab Services Revenue from Physicians Offices				135,744		285,120						
Lab Services Revenue from Hospitals				211,050		342,720						
OnSite Services Revenue from Hospitals				10,500		14,112						
Pharmaceuticals Services				46,800		74,880						
otal Gross Profit		N/A	5	659,320	\$	1,362,750		N/A		N/A	-	N/
Margin %				66%		69%						
Nanagement Forecasts Provided to Aranca - 9/30/13 Valuation	_											
otal Gross Profit	s	77,478	\$	95,978	s	108,151	\$	118,159		N/A		N/
Margin %		86%	•	86%	•	82%	*	82%		N/A		11/
Ianagement Forecasts Provided to Aranca - 12/16/14 Valuation												
	\$	97	\$	73,744	\$	151,947	\$	219.947	\$	352,416		N/
		65%		65%		68%		68%	÷.	70%		
		0076										
otal Gross Profit Margin %		0078										
otal Gross Profit		N/A	5	73,744	\$	151,947	\$	219,947	5	352,416		N



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 126 of 156

US v. Elizabeth Holmes	Appendix Exhibit B.3
Valuation of Theranos, Inc.	Summary of EBITDA Forecasts
Feb 2014 - Feb 2015	(thousands of USD)

	For the Twelve Month Period Ending												
		2014	2015			2016		2017		2018		2019	
Ianagement Forecasts Provided to PFM - Feb 2014 Investment	28	(36,000)	24.17	2010/01/01									
otal EBITDA Margin %	\$		\$ 408,000 24%	408,000		N/A		N/A		N/A		N/A	
				6.016									
FM Financial Model (Base Case) - Feb 2014 Investment	- Q - 1	And a later of		and the		1.072.414		5 parts and		0.000			
otal EBITDA	\$	(22,657)	\$	351,264	\$	1,146,797	\$	1,623,197	\$	1,758,932	\$	1,895,357	
Margin %		-7%		21%		36%		40%		41%		41%	
Management Forecasts Provided to Daniel Mosley - Oct 2014													
otal EBITDA	\$	(1,000)	\$	241,000		N/A		N/A		N/A		N/A	
Margin %		-1%		24%									
Management Forecasts Provided to RDV Corporation - Oct 2014													
otal EBITDA	\$	(1,000)	s	237,000		N/A		N/A		N/A		N/A	
Margin %		-1%		24%								and a	
lanagement Forecasts Provided to Rupert Murdoch - Feb 2015													
otal EBITDA		N/A	S	338,411	\$	861,192		N/A		N/A		N/A	
Margin %				34%	6	44%		10.1		100.0			
anagement Forecasts Provided to Aranca - 9/30/13 Valuation													
otal EBITDA	\$	8,827	\$	22,566	s	31,850	s	38,793		N/A		N/A	
Margin %	•	10%	*	20%		24%	*	27%		N/A		1972	
Incompany Encounter Descrided to Assure 42/45/44 Volustion													
Ianagement Forecasts Provided to Aranca - 12/15/14 Valuation		(00.024)		100 0041		54 000		440.070		000 045			
otal EBITDA	\$	(99,934)	\$	(23,281)	\$	51,986	\$	110,970	\$	228,015		N/4	
Margin %		-66623%		-21%		23%		34%		45%			
anagement Forecasts Provided to Aranca - 3/25/15 Valuation													
otal Gross Profit		N/A	\$	(23,137)	\$	52,183	\$	111,167	\$	228,212		N//	
Margin %				-20%		23%		34%		45%			



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 127 of 156

/aluation of Theranos, Inc. As of February 7, 2014		od Value Summary 2/7/1 except Per Share Value
	Ref.	Fair Market Value
Indicated Value – 100% Controlling, Marketable Interest Basis	Appendix Exhibit C.3	\$ 1,510,461
Indicated Value – 100% Controlling, Marketable Interest Basis (rounded)		\$ 1,510,000

Preferred Shares 46,320,045 5 109,791,828 5 Series A @ \$0,150 46,320,045 \$ 109,791,828 \$ Series C @ \$0,0564 58,896,105 161,956,174 \$ \$ Series C-1 @ \$3.00 25,175,001 122,398,158 \$ \$ Series C-2 @ \$17,00 7,500,032 114,495,374 \$ </th <th>Per Share Marketable</th> <th>_</th> <th>Present Value Marketable</th> <th>Shares Outstanding</th> <th>Share Classes</th>	Per Share Marketable	_	Present Value Marketable	Shares Outstanding	Share Classes
Series B @ \$0.1846 54,162,965 129,749,930 Series C @ \$0.564 58,896,105 161,956,174 Series C-1 @ \$3.00 25,175,001 122,398,158 Series C-1 @ \$15.00 7,500,032 114,495,374 Series C-2 @ \$17.00 9,669,998 164,389,966 Total Preferred Shares 201,724,146 802,781,429 Warrants on Common 201,724,146 802,781,429 Common - Outstanding 302,640,465 684,230,716 Options on Common 302,640,465 684,230,716 Exercise Price @ \$0.015 350,000 787,519 Exercise Price @ \$0.030 1,227,125 2,742,677 Exercise Price @ \$0.066 552,500 1,216,223 Exercise Price @ \$0.072 3,092,715 6,739,113 Exercise Price @ \$0.094 312,500 670,277 Exercise Price @ \$0.094 312,500 670,277 Exercise Price @ \$0.026 703,195 1,411,858					Preferred Shares
Series C @ \$0.564 58,896,105 161,956,174 Series C-1 @ \$3.00 25,175,001 122,398,158 Series C-2 @ \$17.00 9,669,998 164,389,966 Total Preferred Shares 201,724,146 802,781,429 Warrants on Common Exercise Price @ \$0.072 741,665 1,616,109 Common - Outstanding 302,640,465 684,230,716 Options on Common Exercise Price @ \$0.015 350,000 787,519 Exercise Price @ \$0.030 1,227,125 2,742,677 Exercise Price @ \$0.066 552,500 1,216,223 Exercise Price @ \$0.072 3,092,715 6,739,113 Exercise Price @ \$0.072 3,990,167 8,264,639 Exercise Price @ \$0.170 3,990,167 8,264,639 Exercise Price @ \$0.206 703,195 1,411,858	\$ 2.37	5	\$ 109,791,828	46,320,045	Series A @ \$0,150
Series C-1 @ \$3.00 25,175,001 122,398,158 Series C-1 @ \$15.00 7,500,032 114,495,374 Series C-2 @ \$17.00 9,669,998 164,389,966 Total Preferred Shares 201,724,146 802,781,429 Warrants on Common 201,724,146 802,781,429 Warrants on Common 741,665 1,616,109 Common - Outstanding 302,640,465 684,230,716 Options on Common 302,640,465 684,230,716 Exercise Price @ \$0.015 350,000 787,519 Exercise Price @ \$0.030 1,227,125 2,742,677 Exercise Price @ \$0.066 552,500 1,216,223 Exercise Price @ \$0.072 3,092,715 6,739,113 Exercise Price @ \$0.072 3,092,715 6,739,113 Exercise Price @ \$0.072 3,092,715 6,739,113 Exercise Price @ \$0.072 3,090,167 8,264,639 Exercise Price @ \$0.070 3,990,167 8,264,639 Exercise Price @ \$0.206 703,195 1,411,858	2.40		129,749,930	54,162,965	Series B @ \$0,1846
Series C-1 @ \$15.00 7,500,032 114,495,374 Series C-2 @ \$17.00 9,669,998 164,389,966 Total Preferred Shares 201,724,146 802,781,429 Warrants on Common 201,724,146 802,781,429 Warrants on Common 741,665 1,616,109 Common - Outstanding 302,640,465 684,230,716 Options on Common 302,640,465 684,230,716 Exercise Price @ \$0.015 350,000 787,519 Exercise Price @ \$0.030 1,227,125 2,742,677 Exercise Price @ \$0.066 552,500 1,216,223 Exercise Price @ \$0.072 3,092,715 6,739,113 Exercise Price @ \$0.094 312,500 670,277 Exercise Price @ \$0.206 703,195 1,411,858	2.75		161,956,174	58,896,105	Series C @ \$0.564
Series C-2 @ \$17.00 9,669,998 164,389,966 Total Preferred Shares 201,724,146 802,781,429 Warrants on Common 741,665 1,616,109 Exercise Price @ \$0.072 741,665 684,230,716 Options on Common 302,640,465 684,230,716 Exercise Price @ \$0.015 350,000 787,519 Exercise Price @ \$0.030 1,227,125 2,742,677 Exercise Price @ \$0.066 552,500 1,216,223 Exercise Price @ \$0.072 3,092,715 6,739,113 Exercise Price @ \$0.094 312,500 670,277 Exercise Price @ \$0.170 3,990,167 8,264,639 Exercise Price @ \$0.206 703,195 1,411,858	4.86		122,398,158	25,175,001	Series C-1 @ \$3.00
Total Preferred Shares 201,724,146 802,781,429 Warrants on Common Exercise Price @ \$0.072 741,665 1,616,109 Common - Outstanding 302,640,465 684,230,716 Options on Common Exercise Price @ \$0.015 350,000 787,519 Exercise Price @ \$0.030 1,227,125 2,742,677 Exercise Price @ \$0.066 552,500 1,216,223 Exercise Price @ \$0.072 3,092,715 6,739,113 Exercise Price @ \$0.094 312,500 670,277 Exercise Price @ \$0.170 3,990,167 8,264,639 Exercise Price @ \$0.206 703,195 1,411,858	15.27		114,495,374	7,500,032	Series C-1 @ \$15.00
Warrants on Common Exercise Price @ \$0.072 741,665 1,616,109 Common - Outstanding 302,640,465 684,230,716 Options on Common Exercise Price @ \$0.015 350,000 787,519 Exercise Price @ \$0.030 1,227,125 2,742,677 Exercise Price @ \$0.066 552,500 1,216,223 Exercise Price @ \$0.072 3,092,715 6,739,113 Exercise Price @ \$0.094 312,500 670,277 Exercise Price @ \$0.170 3,990,167 8,264,639 Exercise Price @ \$0.206 703,195 1,411,858	17.00		164,389,966	9,669,998	
Exercise Price @ \$0.072 741,665 1,616,109 Common - Outstanding 302,640,465 684,230,716 Options on Common 350,000 787,519 Exercise Price @ \$0.015 350,000 787,519 Exercise Price @ \$0.030 1,227,125 2,742,677 Exercise Price @ \$0.066 552,500 1,216,223 Exercise Price @ \$0.072 3,092,715 6,739,113 Exercise Price @ \$0.094 312,500 670,277 Exercise Price @ \$0.170 3,990,167 8,264,639 Exercise Price @ \$0.206 703,195 1,411,858			802,781,429	201,724,146	Total Preferred Shares
Common - Outstanding 302,640,465 684,230,716 Options on Common 350,000 787,519 Exercise Price @ \$0.030 1,227,125 2,742,677 Exercise Price @ \$0.066 552,500 1,216,223 Exercise Price @ \$0.072 3,092,715 6,739,113 Exercise Price @ \$0.094 312,500 670,277 Exercise Price @ \$0.170 3,990,167 8,264,639 Exercise Price @ \$0.206 703,195 1,411,858					Warrants on Common
Options on Common 350,000 787,519 Exercise Price @ \$0.030 1,227,125 2,742,677 Exercise Price @ \$0.066 552,500 1,216,223 Exercise Price @ \$0.072 3,092,715 6,739,113 Exercise Price @ \$0.094 312,500 670,277 Exercise Price @ \$0.170 3,990,167 8,264,639 Exercise Price @ \$0.206 703,195 1,411,858	2.18		1,616,109	741,665	Exercise Price @ \$0.072
Exercise Price @ \$0.015350,000787,519Exercise Price @ \$0.0301,227,1252,742,677Exercise Price @ \$0.066552,5001,216,223Exercise Price @ \$0.0723,092,7156,739,113Exercise Price @ \$0.094312,500670,277Exercise Price @ \$0.1703,990,1678,264,639Exercise Price @ \$0.206703,1951,411,858	2.26		684,230,716	302,640,465	Common - Outstanding
Exercise Price @ \$0.030 1,227,125 2,742,677 Exercise Price @ \$0.066 552,500 1,216,223 Exercise Price @ \$0.072 3,092,715 6,739,113 Exercise Price @ \$0.094 312,500 670,277 Exercise Price @ \$0.170 3,990,167 8,264,639 Exercise Price @ \$0.206 703,195 1,411,858					Options on Common
Exercise Price @ \$0.066 552,500 1,216,223 Exercise Price @ \$0.072 3,092,715 6,739,113 Exercise Price @ \$0.094 312,500 670,277 Exercise Price @ \$0.170 3,990,167 8,264,639 Exercise Price @ \$0.206 703,195 1,411,858	2.25		787,519	350,000	
Exercise Price @ \$0.072 3,092,715 6,739,113 Exercise Price @ \$0.094 312,500 670,277 Exercise Price @ \$0.170 3,990,167 8,264,639 Exercise Price @ \$0.206 703,195 1,411,858	2.24		2,742,677	1,227,125	Exercise Price @ \$0.030
Exercise Price @ \$0.094 312,500 670,277 Exercise Price @ \$0.170 3,990,167 8,264,639 Exercise Price @ \$0.206 703,195 1,411,858	2.20		1,216,223	552,500	Exercise Price @ \$0.066
Exercise Price @ \$0.170 3,990,167 8,264,639 Exercise Price @ \$0.206 703,195 1,411,858	2.18		6,739,113	3,092,715	Exercise Price @ \$0.072
Exercise Price @ \$0.206 703,195 1,411,858	2.14		670,277	312,500	Exercise Price @ \$0.094
	2.07		8,264,639	3,990,167	· · · · · · · · · · · · · · · · · · ·
Total Options Outstanding 10,228,202 21,832,305	2.01	5	1,411,858		
		2	21,832,305	10,228,202	Total Options Outstanding
Total Outstanding			\$ 1,510,460,559	515,334,478	Total Outstanding



/aluation of Theranos, Inc. As of February 7, 2014									Backsolve	Appendix Exhibit (Method 2/7/14 - Ste (US
Break Point Calculation				\$0.015	\$0.030	\$0.066	\$0.072	\$0.094	\$0.170	\$0.206
	Number of	Series C, C-1, C-2	Series A, B Liq.	\$0.015 Options	\$0.03 Options	\$0.066 Options	\$0.072 Warrants / Options on	\$0.094 Options	\$0.170 Options	\$0.206 Options
Share Class	Shares	Lig. Preference	Preference	Exercise	Exercise	Exercise	Common Ex.	Exercise	Exercise	Exercise
Preferred Share Classes		1							Environse	EAVIVIOU
Series A @ \$0.150	46,320,045	s -	\$ 6,948,007	A Mar regard to	\$ 9,032,409	\$ 12,089,532	\$ 15,424,575	\$ 19,778,659	\$ 27,653,067	\$ 37,194,99
Series B @ \$0.1846	54, 162, 965	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10,000,000	10,812,444	12,437,333	16,012,089	19,911,822	25,003,141	34,210,845	45,368,41
Series C @ \$0.564	58,896,105	33,217,403	33,217,403	34,100,845	35,867,728	39,754,871	43,995,390	49,531,624	59,543,962	71,676,56
Series C-1 @ \$3.00	25,175,001	75,525,003	75,525,003	75,902,628	76,657,878	78,319,428	80,132,028	82,498,478	86,778,228	91,964,27
Series C-1 @ \$15.00	7,500,032	112,500,480	112,500,480	112,612,980	112,837,981	113,332,984	113,872,986	114,577,989	115,852,994	117,398,00
Series C-2 @ \$17.00	9,669,998	164,389,966	164,389,966	164,535,016	164,825,116	165,463,336	166,159,576	167,068,555	168,712,455	170,704,47
Warrants on Common Exercise Price @ \$0.072	741,665	-						16.317	72,683	99,38
Common	Cast of Ca			1 500 007	0.070.044					
The second second second second	302,640,465		-	4,539,607	9,079,214	19,974,271	21,790,113	28,448,204	51,448,879	62,343,936
Options on Common	and to t				1 22.		1.1.2			
Exercise Price @ \$0.015	350,000			5	5,250	17,850	19,950	27,650	54,250	66,85
Exercise Price @ \$0.030	1,227,125	- CO				44,177	51,539	78,536	171,798	215,97
Exercise Price @ \$0.066	552,500				1.0	÷	3,315	15,470	57,460	77,35
Exercise Price @ \$0.072	3,092,715	÷	19				1 (S)	68,040	303,086	414,42
Exercise Price @ \$0.094	312,500	(.)	-5		-	8	-	100 million (100 m	23,750	35,00
Exercise Price @ \$0.170	3,990,167	-	- 4		· *			-		143,64
Exercise Price @ \$0.206	703,195			<u> </u>						
	515,334,478	385,632,852	402,580,859	410,146,328	420,742,909	445,008,535	461,361,295	487,112,663	544,883,458	597,703,28
		Series C, C-1, C-2 Liq. Preference	Series A, B Liq. Preference	\$0.015 Options Exercise	\$0.03 Options Exercise	\$0.066 Options Exercise	\$0.072 Warrants / Options on Common Ex.	\$0.094 Options Exercise	\$0.170 Options Exercise	\$0.206 Options Exercise
Inputs										
Stock Price Now	\$ 1,510,460,559	\$ 1,510,460,559	\$ 1,510,460,559	\$ 1,510,460,559	\$ 1,510,460,559	\$ 1,510,460,559	\$ 1,510,460,559	\$ 1,510,460,559	\$ 1,510,460,559	\$ 1,510,460,55
Volatility	55.0%	55.0%	55.0%	55.0%	55.0%	55.0%	55.0%	55.0%	55,0%	55,0
Riskfree Rate - Annual	1.07%	1.07%	1.07%	1.07%	1.07%	1.07%	1.07%	1.07%	1.07%	1.07
Exercise Price	\$ 0.00	\$ 385,632,852	\$ 402,580,859	\$ 410,146,328	\$ 420,742,909	5 445,008,536	\$ 461,361,295	\$ 487,112,663	\$ 544,883,458	\$ 597,703,28
Time To Maturity - Years	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.0
Outputs										
d1	38.64	1.83	1,79	1.77	1 75	170	1.67	1.62	1.52	1.4
d2	37.54	0.73	0.69	0 67	0.65	0.60	0.57	0.52	0.42	0.3
N(d1)	1.000	0.966	0.963	0.962	0.960	0.955	0.952	0.947	0.935	0.9
N(d2)	1.000	0.767	0.755	0.750	0.742	0.726	0,715	0.698	0.661	0.6
Call Price (V _c)	\$ 1,510,460,559	5 1,176,113,924	\$ 1.163,751,179	\$ 1,158,295,777	\$ 1,150,719,580	5 1,133,651,949	\$ 1,122,367,229	\$ 1,104,943,326	\$ 1,067,342,573	\$ 1,034,676,46
-d1	-38.642	-1.830	-1.791	-1.774	-1.751	-1 700	-1.667	-1.618	-1.516	-1.4
-d2	-37.542	-0.730	-0.691	-0.674	-0.651	-0.600	-0.567	-0.518	-0.416	-0.3
N(-d1)	0.000	0.034	0.037	0.038	0.040	0.045		0.053	0.065	0.0
N(-d2)	0.000	0.233	0.245	0.250	0.258	0.274	0.285	0.302	0.339	0.3
	s -	\$ 35,203,257	\$ 39,081,695	5 40,876,242	\$ 43,454,692	\$ 49,640,681	\$ 54,026,722	5 61,280,217	\$ 79,040,906	\$ 96,991,75
Put Price (Pp)	3	0 00,200,201	3 39,001,095		5 40,404,032		e contorenter	φ 01,200,211	3 13,040,300	0 00,001,11
	S 1,510,460,559	\$ 1,176,113,924	\$ 1,163,751,179	\$ 1,158,295,777	\$ 1,150,719,580	s 1,133,651,949	\$ 1,122,367,229	\$ 1,104,943,326	\$ 1.067.342.573	\$ 1,034,676,44



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 129 of 156

S V. Elizabeth Holmes iluation of Theranos, Inc. of February 7, 2014									Backsolve N	Appendix Exhibit C tethod 2/7/14 - Step
117 E01000 1, 2014		A 17 19 1	100.03		W. Y. &	50.072 Warrants /		A		(USI
	Series C, C-1, C-2 Lig. Preference	Series A, B Liq. Preference	\$0.016 Options	\$0.03 Options	50.066 Options	Options on	50.094 Options	50.170 Options	\$0,205 Options	All Classes
igh call option	\$ 1,510,460,559	\$ 1.176.113.924	Exercise 5 1,153,751,179	Exercise 5 1,158,295,777	Exercise \$ 1,150,719,580	Common Ex. 5 1,133,651,949	Exercise \$ 1,122,367,229	Exercise 5 1,104,943,326	Exercise 5 1,067,342,573	Participate \$ 1,034,676,463
ess low call option	1,175,113,924	1,163,751,179	1,158,295,777	1,150,719,580	1,133,651,949	1,122,367,229	1,104,943,326	1.067.342.573	1,034,676,463	a ((waa,0)0,402
otal Value to Allocate	\$ 334,346,635	\$ 12,362,745	\$ 5,455,402	\$ 7,576,197	\$ 17,067,632	\$ 11,284,720	\$ 17,423,903	\$ 37,600,753	\$ 32,666,109	\$ 1,034,676,465
Series A @ \$0.150		6,948,007	46,320,045	46,320,045	46,320,045	45,320,045				
Series B @ \$0,1846		10,000,000	54,162,965	54,162,965	54,162,965	54,162,965	46,320,045 54,162,965	46,320,045 54,162,965	45,320,045 54,162,965	46,320,045
Series C @ \$0 564	33,217 403	10,000,000	58,896,105	58,896,105	58,896,105	58,895,105	58,896,105	58,896,105	56.896.105	58,896,105
Series C-1 @ \$3.00	75,525,003	2	25,175,001	25,175,001	25,175,001	25,175,001	25,175,001	25,175,001	25,175,001	25,175.00
Series C-1 @ \$15.00 Series C-2 @ \$17.00	112,500,480	-	7,500,032 9,659,995	7,500,032 9,669,998	7,500,032	7,500,032	7,500,032	7,500,032	7,500,032	7,500,033
Varrants on Common	104,308,900		9,009,990	a'00a'aap	9,009,930	9,669,998	9,669,998	9,669,998	9,669,998	9,669,996
Exercise Price @ 50.072			100 C	20.	1.00	A100 81	741,665	741,665	741,665	741,66
amman	241		302,640,465	302,640,465	302,640,465	302.640.465	302,640,465	302,640,465	302,640,465	302,640,465
plians an Common										
Exercise Price @ \$0.015 Exercise Price @ \$0.030				350,000	350,000	350,000	350,000	350,000	350,000	350,00
Exercise Price @ \$0.030 Exercise Price @ \$0.066	8				1,227,125	1,227,125 552,500	1,227,125 552,500	1,227,125	1,227,125 552,500	1,227,125
Exercise Price @ \$0.072						556,000	3,092,715	3,092,715	3,092,715	3,092,715
Exercise Price @ \$0.094	14 I.		ě	÷		3	-	312,500	312,500	312,500
Exercise Price @ \$0 170			1 million (1 million (2.0	1	-			3,990,167	3,990,167
Exercise Price @ \$0 206	385,632,852	15,948,007	504,354,611	504,714,611	505.941.735			510,641,116	C11 001 000	703,195
listribution Percentage	303,032,032	10,040,007	-304,304,611	304,714,611	505,941,735	506,494,236	510,328,616	510,641,116	514,631,283	515,334,478
referred Share Classes										
Series A @ \$0 150	0.0%	41.0%	9,2%	9.2%	9.2%	91%		9.1%	9.0%	9.0
Series B @ \$0.1846	0.0%	59.0%	10 7%	10.7%	10.7%	10.7%	10.6%	10.6%	10.5%	10.5
Series C @ \$0 554 Series C-1 @ \$3 00	8 6% 19 6%	0.0%	11.7%	11.7% 5.0%	11.6%	11.6%	11 5%	11.5%	11.4%	11.4
Series C-1 @ \$15 00	29 2%	0.0%	1 5%	1.5%	1.5%	1 5%	1 5%	1,5%	1.5%	1.5
Series C-2 @ \$17 00	42.6%	0.0%	1 59%	1.9%	1.9%	1.9%	1.9%	1.9%	1.5%	1.9
Varrants on Common Exercise Price @ \$0.072	0.0%	0,0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	01%	
Common	0.0%	0.0%	60.0%	60,0%	59.6%	59.8%	59.3%	59.3%	58 8%	58 7
	0.014	0.04	60.030	00,03	55 G W	59.0%	28.2%	39.2%	20.0%	30 //
Exercise Price @ \$0.015	0.0%	0.0%	0.0%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1
Exercise Price @ \$0.030	0.0%	0 0%	0.0%	0.0%	0.2%	0.2%	0.2%	0.2%	0.2%	02
Exercise Price @ \$0.066	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.1%	0.1%	0.1
Exercise Price @ \$0,072	0.0%	0,0%	0.0%	0.0%	0.0%	0.0%	0.6%	0.6%	0.6%	0.6
Exercise Price @ \$0.094	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.1
Exercise Price @ \$0 170 Exercise Price @ \$0.206	0.0%	0.0%	0.0%	0.0%	0,0%	0.0%	0.0%	0.0%	0.8%	0.8
Elected Life & Aniros	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100,0
Allocation of Value										
referred Share Classes										
Series A @ \$0.150 Series B @ \$0.1846	1	\$ 5,066,232 7,294,513	\$ 501,015 585,847	\$ 695,303 813,032	\$ 1,562,578 1,827,154	\$ 1,032,013 1,206,754	5 1,581,483 1,849,260	5 3,410,749 3,988,258	\$ 2,940,155 3,437,982	\$ 93,000,29 108,747,12
Series C @ 50.564	28 799 743	7,294,013	637,043	884.081	1,986,824	1,312,208	2,010,861	4,336,779	3,437,982	108,747,12
Series C-1 @ \$3.00	65 480 756	1.1.1.2	272,302	377,898	849,263	560,900	859,538	1,853,746	1,597,978	50.545.77
Series C-1 @ \$15 00	97,538,777	-	81,123	112,582	253,009	167,101	256,070	552,260	476,063	15,056,38
Series C-2 @ \$17 00	142,527,359	1.1	104,594	145,155	326,211	215,448	330,158	712,045	613,801	19,415,19
Exercise Price @ 50 072							25,322	54,612	47,077	1,489,09
Sommon		12	3,273,476	4,542,892	10,209,369	6,742,846	10,332,907	22 284,750	19,210,038	607,634,41
Oplians on Common			44.447.0	100000	Construct	Self-Self-Sec	Construction of	0.000	1-terespect	
Exercise Price @ \$0.015	÷ .	~		5,254	11,807	7,798	11,950	25,772	22,216	702,72
Exercise Price @ \$0 030		-		-	41,396	27,340	41,697	90,359	77,891	2,463,79
Exercise Price @ \$0.066		-		-		12,310	18,664	40,683	35,070	1,109,29
Exercise Price @ \$0.072		-				~	105,593	227,730	196,309	6,209,48
Exercise Price @ \$0.094 Exercise Price @ \$0.170						-		23,011	19,836 253,275	627,43 8,011,36
Exercise Price @ \$0 206			-		-					1,411,85
	\$ 334,346,635	\$ 12,362,745	and the second second	\$ 7,576,197	5 17,067,632	\$ 11,284,720	\$ 17,423,903	\$ 37,600,753	5 32,666,109	5 1,034,675,46
Share Class	Number of Shares	Total Value	Per Share Marketable							
Preferred Share Classes	Addition of olis(02	Total Value	maraciable							
Series A @ \$0.150	46 320,045	5 109,791,828	\$ 2.37							
Series B @ \$0,1846	54, 162, 965	129 749 930	2 40							
Series C @ \$0.564	58, 595, 105	161,955,174	2 75							
Series C-1 @ \$3.00	25,175,001	122,398,158	4.86							
Series C-1 @ \$15.00	7,500,032	114,495,374	15.27							
Series C-2 @ \$17.00	9,669,998	\$ 164,389,966	\$ 17.00							



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 130 of 156

uation of Theranos, Inc. of December 31, 2014		Backsolve Method (thousands of USD)		
		Ref.		air Market Value
Indicated Value - 100% Controlling, Marketable Interest Basis		Appendix Exhibit D.3	\$	2,247,529
Indicated Value – 100% Controlling, Marketable Interest Basis (rounded)			\$	2,250,000
Per Share Value	Shares	Present Value		esent Value Per Share
Share Classes	Outstanding	Marketable	M	arketable
Preferred Shares Series A @ \$0.150 Series B @ \$0.1846 Series C @ \$0.564 Series C-1 @ \$3.00 Series C-1 @ \$15.00 Series C-2 @ \$17.00 Total Preferred Shares	46,320,045 54,134,965 58,896,105 25,175,001 7,500,032 <u>32,808,227</u> 224,834,375	\$ 141,823,753 166,985,536 201,942,073 136,956,824 115,114,977 557,739,835 1,320,562,999	\$	3.06 3.08 3.43 5.44 15.35 17.00
Warrants on Common Exercise Price @ \$0.072	741,665	2,140,841		2.89
Common - Outstanding	302,965,725	897,714,632		2.96
Options on Common Exercise Price @ \$0.015 Exercise Price @ \$0.030 Exercise Price @ \$0.066 Exercise Price @ \$0.072 Exercise Price @ \$0.094 Exercise Price @ \$0.170 Exercise Price @ \$0.206 Total Options Outstanding	350,000 1,170,875 547,500 2,579,175 312,500 3,972,457 606,365 9,538,872	1,033,652 3,441,670 1,592,180 7,444,876 891,811 11,056,985 1,649,600 27,110,774	l	2.95 2.94 2.91 2.89 2.85 2.78 2.78
Total Outstanding	538,080,637	\$ 2,247,529,245	·	



Valuation of Theranos, Inc. As of December 31, 2014										Appendix Exhibit I thod 12/31/14 - Ste (US
Break Point Calculation				\$0.015	\$0.030	\$0.066	\$0.072	\$0.094	\$0,170	\$0.206
Share Class	Number of Shares	Series C, C-1, C-2 Liq. Preference	Series A, B Liq. Preference	\$0.015 Options Exercise	\$0.03 Options Exercise	\$0.056 Options Exercise	\$0.072 Warrants / Options on Common Ex.	\$0.094 Options Exercise	\$0.170 Options Exercise	\$0.206 Options Exercise
Preferred Share Classes Series A @ \$0.150 Series B @ \$0.1846 Series C @ \$0.664 Series C-1 @ \$3.00 Series C-1 @ \$15.00	46,320,045 54,134,965 58,896,105 25,175,001 7,500,032	\$ 33,217,403 75,525,003 112,500,480	\$ 6,948,007 9,994,830 33,217,403 75,525,003 112,500,480	10,806,855 34,100,845 75,902,628 112,612,980	\$ 9,032,409 12,430,904 35,867,728 76,657,878 112,837,981	16,003,811 39,754,871 78,319,428 113,332,984	\$ 15,424,575 19,901,529 43,995,390 80,132,028 113,872,985	\$ 19,778,659 24,990,216 49,531,624 82,498,478 114,577,989	\$ 27,853,067 34,193,160 59,543,962 86,778,228 115,852,994	\$ 37,194,996 45,344,962 71,676,560 91,964,279 117,398,001
Series C-2 @ \$17.00 Narrants on Common Exercise Price @ \$0.072	32,808,227	557,739,859	.557,739,859	558,231,982	559,216,229	561,381,572	563,743,765	566,827,738 16,317	572,405,136 72,683	579,163,63 99,38
Common	302,965,725	- A		4,544,486	9.088.972	19,995,738	21,813,532	28,478,776	51,504,173	62,410,93
Options on Common	A. P. A. A.			4/044/400	ACT AND A			20,4/0,//0	01,004,173	62,410,93
Exercise Price @ \$0.015	350,000 1,170,875	~	÷	2	5,250	17,850	19,950	27,650	54,250	66,85
Exercise Price @ \$0.030 Exercise Price @ \$0.066	547,500					42,152	49,177 3,285	74,936	163,923 56,940	206,07
Exercise Price @ \$0.000	2,579,175	100	10				3,265	1		
Exercise Price @ 50.094	312,500	- C	D.				<u></u>	56,742	252,759	345,6
The second se									23,750	35,00
Exercise Price @ \$0.170 Exercise Price @ \$0.206	3,972,457 606,365									143,00
	538,080,637	778,982,745	795,925,582	803,842,584	815,137,351	840,937,937	858,956,217	886,874,457	948,555,026	1,006,125,94
		Series C, C-1, C-2 Liq. Preference	Series A, B Liq. Preference	\$0.015 Options Exercise	\$0.03 Options Exercise	\$0.066 Options Exercise	\$0.072 Warrants / Options on Common Ex.	\$0.094 Options Exercise	\$0.170 Options Exercise	\$0.206 Options Exercise
nputs								1		
Stock Price Now	\$ 2,247,529,245	\$ 2,247,529,245	\$ 2,247,529,245	\$ 2,247,529,245	\$ 2,247,529,245	\$ 2,247,529,245	\$ 2,247,529,245	\$ 2,247,529,245	\$ 2,247,529,245	\$ 2,247.529,24
Volatility	53.0%	53.0%	53.0%	53.0%	53.0%	53.0%	53.0%	53.0%	53,0%	53.0
Riskfree Rate - Annual		1.38% \$ 778 982 745	1.38%	1.38% \$ 803 842 584	1.38%	1.38%	1.38%	1.38%	1.38%	1.3
Exercise Price Time To Maturity - Years	<u>\$ 0.00</u> 4.00	\$ 778,982,745 4.00	\$ 795,925,582 4.00	\$ 803,842,584 4.00	5 815,137,351 4.00	\$ 840,937,937 4.00	\$ 858,956,217 4,00	\$ 886,874,457 4.00	\$ 948,555,026 4.00	\$ 1,006,125,9
Outputs						S				
d1	40.45	1.58	1.56	1.55	1 54	1.51	1.49	1.46	1.40	13
d2	39.39	0.52	0.50	0.49	0.48	0.45	0.43	0.40	0.34	0.3
N(d1)	1.000	0.943	0.941	0.940	0.938	0.934	0.932	0.928	0.919	0.8
N(d2)	1.000	0.699	0.692	0.689	0.684	0.673	0.666	0 655	0.631	0.6
Call Price (V _s)	\$ 2,247,529,245	\$ 1,604,322,755	\$ 1,593,170,677	S 1.587,998,486	\$ 1,580,662,164	\$ 1.564,089,715	\$ 1,552,667,500	\$ 1,535,211,428	\$ 1,497,662,065	\$ 1.463,834,33
-d1	-40.446	-1.582	-1,561	-1,552	-1.539	-1.509	-1,489	-1.459	-1.396	-1.3
-d2	-39.386	-0.522	-0.501	-0.492	-0,479	-0.449	-0.429	-0.399	-0.336	-0.2
410 443	0.000	0.057	0.059	0.060	0.062	0.066	0.068	0.072	0.081	0.0
N(-d1)				0.311	0.316	0.327	0.334	0.345	0.369	0.3
N(-d1) N(-d2)	0.000	0.301	0.308	0.311	0.510	0.027		0.343	0.309	
	0.000 S -	\$ 94,089,110	S 98,973,174	\$ 101,294,307	\$ 104,648,315	\$ 112,495,738	\$ 118,127,557	\$ 127,095,684	\$ 147,926,065	\$ 168,588,3



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 132 of 156

aluation of Theranos, Inc s of December 31, 2014									Backsolve Met	hod 12/31/14 - Ster (US
high call option less low call option lotal Value to Allocate	Series C, C-1, C-2 Liq. Preference \$ 2,247,529,245 1,604,322,756 \$ 643,206,489	Series A, B Liq. Prefarence 5 1,604,322,756 1,593,170,677 5 11,152,079	\$0.016 Options Exercise 5 1,563,170,677 1,567,998,466 5 5,172,191	\$0,03 Options Exercise \$ 1,587,998,485 1,580,652,164 \$ 7,336,322	\$0.066 Options. Exercise 5 1.580,662,164 1.564,089,715 5 16.572,449	\$0.072 Warrants / Options on Common Ex. \$ 1,564,089,715 1,552,667,500 \$ 11,422,215	\$0.094 Oplions Exercise 5 1,552,867,500 1,535,211,428 5 17,456,072	\$0.170 Options Exercise 5 1,535,211,428 1,497,652,065 5 37,549,362	\$0.206 Options Exercise 5 1,497,662,065 1,463,834,334 5 33,827,732	All Classes Participate 5 1,463,834,33 5 1,463,834,35
referred Share Classes									00,027,102	· (,400,004,00
Series A @ \$0.150 Series B @ \$0.1846	241	6,946,007	46,320,045	46,320,045	46,320,045	46,320,045	46,320,045	46,320,045	46,320,045	46,320,04
Series C @ \$0 564	33,217,403	9,994,830	54,134,965 58,896,105	54,134,965 58,896,105	54,134,965 58,896,105	54 134 955 58 890 105	54,134,965 58,896,105	54,134,965 58,896,105	54,134,965 58,896,105	54,134,96 55,896,10
Series C-1 @ \$3.00	75,525,003		25,175,001	25,175.001	25,175,001	25,175,001	25,175,001	25,175.001	25,175,001	25,175.00
Series C-1 @ \$15.00 Series C-2 @ \$17.00	112,500,480 557,739,859		7,500,032	7,500,032	7,500,032 32,808,227	7,500,032 32,808,227	7,500,032	7,500,032 32,808,227	7,500,032	7,500,03
Varrants on Common	2011/2020		action ext	35,000,551	32,000,221	52,608,221				32,805,22
Exercise Price @ 50 072					der eine mit		741,665	741,665	741,665	741,66
common	~	-	302,965,725	302,965,725	302,965,725	302,965,725	302,965,725	302,966,725	302,965,725	302,965,72
Exercise Price @ 50.015	÷.			350,000	350,000	350,000	350,000	350.000	350,000	350.00
Exercise Price @ \$0.030	-			-	1,170,875	1,170,875	1,170,875	1,170,875	1,170,875	1,170,87
Exercise Price @ \$0.066		-		-		547,500	547,500	547,500	547,500	547,50
Exercise Price @ \$0.072		-		· · · ·			2,579,175	2,579,175	2,579,175	2,579,17
Exercise Price @ \$0.094 Exercise Price @ \$0.170		-	-	1.1		1		312,500	312,500	312,50
Exercise Price @ \$0.206									3,972,457	3,972,45 606,36
Frieisine Lillen & 40.540	776,982,745	16,942,837	527,800,100	528,150,100	529,320,975	529,868,475	533,189,315	533,501,815	537,474,272	538,080,63
Distribution Percentage Preferred Share Classes								C		
Series A @ \$0 150	0.0%	41.0%	8.8%	8.8%	8.8%	8.7%	8.7%	8.7%	9.6%	85
Sories B @ \$0.1846	0.0%	59,0%	10 3%	10.2%	10.2%	10.2%	10.2%	10.1%	10 1%	10.1
Seties C @ 50 554	43%	0.0%	11.2%	11.2%	11.1%	11 1%	11.0%	11.0%	11.0%	10 9
Series C-1 @ \$3.00	9.7%	0.0%	4.8%	4.8%	4.B%	4 B%	4 7%	4 7%	4 7%	47
Series C-1 @ \$15.00 Series C-2 @ \$17.00	14.4%	0.0%	1.4%	1.4%	1.4%	1.4%	14%	14%	1.4%	14
Variants on Common										
Exercise Price @ \$0.072	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.7%	0.1%	01
Common	0.0%	0.0%	57 4%	57 4%	57.2%	57 2%	56.8%	56.8%	56.4%	56.3
Options on Common				1.65						
Exercise Price @ \$0.015	0.0%	0.0%	0.0%	D 1%	0.1%	0.1%	0.1%	D 1%	.0.1%	01
Exercise Price @ \$0,030 Exercise Price @ \$0,066	0 0% 6 D%	0.0%	0.0%	0.0%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2
Exercise Price @ \$0.003	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	0.5%	0.5%	0.5
Exercise Price @ \$0.094	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	D.1%	0.1%	01
Exercise Price @ \$0 170	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	D.0%	0.0%	0 7%	0.7
Exercise Price @ \$0 206	100.0%	100 D%	100.0%	100.0%	100 0%	0.0%	0.0%	0.0%	0.0%	0.1
Allocation of Value	104.0%	100.0%	100.0%	100.0%	100.0%	100,000	100.0%	100.0%	100.0%	100.0
Preferred Share Classes	-									
Series A @ \$0 150	5 -	\$ 4,573,303	5 453,915	5 643,413	5 1,450,229	5 998,507	5 1,516,471	5 3,260,135	\$ 2,915,306	5 126,012,47
Series B @ \$0 1846	1000	6,578,777	530,497	751,967	1,694,905	1,166,971	1,772,323	3,810,171	3,407,164	147,272,75
Series C @ \$0.564	27,427,628		577,154	818,102	1,843,971	1,269,606	1,928,198	4,145,274	3,706,822	160,225,31
Series C-1 @ \$3,00 Series C-1 @ \$15,00	62,361,037 92,691,709	-	246,703 73,497	349,696	788,201 234,818	542,690	824 204	1,771,888	1,584,472 472,039	68,487,93
Series C-2 @ \$17.00	460,526,114		321,505	455,728	1,027,189	707,237	1,074,108	2,309,136	2,064,895	89,253,92
Warrants on Common										
Exercise Price @ \$0,072		1.5	2,958,921	1 200 120	-	-	24.281	52,200	46,679	2,017,68
			2,998,921	4,208,376	9,485,519	6,530,941	9,918,787	21,323,582	19,068,156	824,210,35
Exercise Price @ \$0.015			-	4,862	10,958	7,545	11,459	24,634	22,028	992,16
Exercise Price @ \$0.030			100		36,659	25,240	38,333	82,409	73,693	3,185,33
Exercise Price @ \$0.066	- 1		1.4	1.8	÷	11.802	17,925	38,535	34,459	1,489,45
Exercise Price @ \$0.072							84,440	181,530	162,329	7,016,57
Exercise Price @ \$0.094				3			-	21,995	1.9,668	55D, 14
Exercise Price @ \$0.170 Exercise Price @ \$0.206		-					A 12		250,020	10,805,96
	5 643,206,489	5 11,152,079	.5 5,172,191	\$ 7,336,322	\$ 16,572,449	\$ 11,422,215	\$ 17,456,072	\$ 37,549,352	5 33,827,732	5 1,463,834,33
Share Class	Number of Shares	Total Value	Per Share Marketable							
Preferred Share Classes	Autor of shares	iotei value	mainetable							
Senes A @ \$0.150	46,320,045	5 141,823,753	\$ 3.06							
Series B @ \$0.1846	54,134,965	166,985,536	3.08							
Series C @ \$0.564	58,896,105	201,942,073	3 43							
Series C-1 @ \$3.00	25,175,001	136,956,824	5 44							
Series C-1 @ \$15.00 Series C-2 @ \$17.00	7,500,032	115,114,977	15 35 \$ 17.00	10						
	32,000,227		17.00							



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 133 of 156

US v. Elizabeth Holmes						Appendix Exhibit E.1
Valuation of Theranos, Inc. As of February 7, 2014			PF	FM (Base) Forecasts -	Depreciation & Capita	Expenditure Analysis (thousands of USD)
					1.1.1.1	
	11 Mo. Ended		For the Twelve	Month Period Endin	g December 31,	
Forecast Depreciation	12/31/2014	2015	2016	2017	2018	2010

Forecast Depreciation	12	/31/2014		2015	_	2016	 2017	_	2018	_	2019
Total Revenue	\$	239,250	s	1,677,000	\$		\$ 	\$		\$	
Beginning Balance - Total Fixed Assets Capital Expenditures	1	22,021 47,850		62,901 201,240	1	240,017	202,545		165,074		127,603
Fixed Assets Capital Expenditures as a % of Revenue		69,871 20.00%	111	264,141 12.00%		240,017 0.00%	 202,545 0.00%		165,074 0.00%		127,603 0.00%



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 134 of 156

Valuation of Theranos, Inc. As of February 7, 2014	P	FM (Base) Forecast Free	Cash F	low to Invested Ca (thousands of L
		, i	11 Mo. Ended 12/31/2014	Pe	e Twelve Month eriod Ending ecember 31, 2015
Total Revenue Total Cost of Revenue Gross Margin	-	\$	261,000 96,000 165,000	\$	1,677,000 599,000 1,078,000
GM %			63.2%		64.3%
Total Operating Expenses Operating Expense %			201,000 77.0%		670,000 <i>40.0%</i>
EBITDA EBITDA %			(36,000) -13.8%		408,000 24.3%
Partial period Adjustment			3,000		
djusted EBITDA	1		(33,000)		
epreciation & Amortization		_	3,667	_	21,000
BIT %			(36,667) -14.0%		387,000 23.1%
nterest Expense	1.0	-		_	
Earnings Before Taxes Income Taxes	40%		(36,667)		387,000 101,670
Forecast After-Tax Income NPAT %		\$	(36,667) -14.0%	\$	285,330 17.0%
Cash Flow Add: Depreciation & Amortization			3,667		21,000
Add. Depreciation & Amontization After-Tax Gross Cash Flow	1.9		(33,000)		306,330
Decrease / (Increase) in Working Capital Less: Capital Expenditures		_	(111,885) (47,850)	-	(263,760) (201,240)
Free Cash Flow		\$	(192,735)	\$	(158,670)



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 135 of 156

Forecast Period Base Cash Flow Discount Period Discounted Rate Discounted PV Factor [1] 2014 - Mar to Dec: \$ (192,735) 0.45 75.5% 0.7773 \$ (149,809) 2015 (158,670) 1.40 75.5% 0.4561 (72,362) Terminal Value 4,732,800 1.90 75.5% 0.3443 1,629,279	aluation of Theranos, Inc. s of February 7, 2014						_		PFM (Base) Forecast - Discounted Cash Flow Method (thousands of USD)
2015 (158,670) 1.40 75.5% 0.4561 (72,362)	CALLE DATE	(Period	and the second second second second	PV Factor [1]		Contraction of the second s	
	2015	\$	(158,670)	1.40	75.5%	0.4561	\$	(72,362)	

114,390

6,556

(40, 489)

1,485,668

1,490,000

\$

S

(1,897)

Add: Series C-2 proceeds not on balance sheet Add: Series C-1 proceeds not on balance sheet Deduct: Note Payable, Long Term Deduct: Capital Lease, LT Portion

Total Equity Value - Non-Controlling, Marketable Basis

Total Equity Value - Non-Controlling, Marketable Basis (rounded)

		LTM Revenue	1YR Growth Revenue	1YR Forward Revenue Growth	EBITDA Margin	D&A Margin	EBIT Margin	Capex % Revenue	Working Capital % Revenue
Upper Quartile	1	1,160,767	21.2%	12.7%	20.7%	2.3%	14.2%	6.5%	140.0%
Mean		1,086,705	20.2%	11.9%	0.1%	1.4%	-73.3%	5.6%	232.8%
Median		237,509	11.8%	6.5%	15.6%	0.0%	4.2%	4.1%	48.7%
Lower Quartile		93,829	3.8%	4.8%	-4.6%	0.0%	-19.7%	3.1%	30.1%
Theranos, Inc. (at 12/31/15)	\$	1,677,000	542.5%	N/A	24.3%	1.3%	23.1%	12.0%	18.6%

	A	/IVIC / LTM Revenue	N	IVIC / LTM EBITDA
Upper Quartile		5.74x	-	25.83x
Mean		6.12x		19,05x
Median		2.71x		14.57x
Lower Quartile	_	1,83x		8.65x
Selected Multiple		4.40x		11.60x
Subject Company Base Value	5	1,677,000	S	408,000
Indicated Value at 12/31/15		7,378,800		4,732,800

Notes:

[1] 1 / (1 + Discount Rate) ^ Period. [2] Base Cash Flow x PV Factor



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 136 of 156

US v. Elizabeth Holmes	Appendix Exhibit E.4
Valuation of Theranos, Inc.	PFM (Model) Forecast Free Cash Flow to Invested Capital
As of February 7, 2014	(thousands of USD)

			No. Ended	_			For the Twelve	elve Month Period Ending December 31,					
		12	/31/2014	_	2015		2016	_	2017	-	2018		2019
Revenue													
Lab Services from US Retail Pharmacies		S	198,986	\$	1,063,582	\$	2,172,705	\$	2,871,036	\$	2,914,101	\$	2,960,241
Lab Services Revenue from Physicians Offices (courier)			32,571		222,965		346,500		388,080		429,660	1	469,455
Lab Services Revenue from Hospitals (courier)			43,313		134,009		167,511		192,638		215,754		238,408
OnSite Services Revenue from Hospitals					122,400		360,000		432,000		504,000		576,520
Pharmaceuticals Services			30,000		120,000		170,000		220,000		270,000		323,386
tal Revenue		\$	304,869	\$	1,662,956	S		\$	4,103,754	s	4,333,516	\$	4,568,01
tal Cost of Revenue			126,526		641,692		1,245,920		1,574,157	1.5	1,612,172	<u> </u>	1,650,57
oss Margin			178,343		1,021,264		1,970,797		2,529,597	-	2,721,344		2,917,43
M %			58.5%		61.4%		61.3%		61.6%		62.8%		63.9
			00.070		S.1.1.10		01.070		01.030		02.070		00.0
otal Operating Expenses			201,000		670,000		824,000		906,400		962,412		1,022,080
peraling Expense %			65.9%		40.3%		25.6%		22.1%		22.2%		22.49
BITDA		-	100 0071	_	254 264	-				-			
BITDA %			(22,657)		351,264		1,146,797		1,623,197		1,758,932		1,895,35
SIIDA %			-7.4%		21.1%		35.7%		39.6%		40.6%		41.5
Partial period Adjustment			1,888										
djusted EBITDA			(20,769)										
epreciation & Amortization			3,667	_	21,000		96,501	<u></u>	205,188		216,676		228,40
BIT			(24,435)		330,264		1,050,295		1,418,009		1,542,256		1,666,95
BIT %			-8.0%		19.9%		32.7%		34.6%		35.6%		36.5
terest Expense		_		_	-						1	_	
arnings Before Taxes			(24,435)		330,264		1,050,295		1,418,009		1,542,256		1,666,95
Income Taxes	40%		(24,455)		83,868		420,118		567,204		616,903		666,78
income raxes	40.70	-			05,000		420,110		307,204		010,803		000,70
precast After-Tax Income		5	(24,435)	\$	246,396	s	630,177	\$	850,805	s	925,354	S	1,000,17
PAT %			-8.0%		14.8%		19.6%		20.7%		21.4%		21.9
			0.010		1.000								
ash Flow													
d: Depreciation & Amortization			3,667		21,000		96,501		205,188		216,676		228,40
After-Tax Gross Cash Flow			(20,769)		267,396		726,679		1,055,993	-	1,142,030	-	1,228,57
Decrease / (Increase) in Working Capital			(9,146)		(49,889)		(96,501)		(123,113)		(130,005)		(137,04
ess: Capital Expenditures			(30,800)		(134,750)		(160,836)		(205,188)		(216,676)		(228,40
AN CONTRACTOR AND			(edises)	-			1.22(000)	-	1200,100)	-	(213,310)	7	1==0110
ree Cash Flow		5	(60,715)	\$	82,757	\$	469,341	s	727,693	\$	795,348	s	863,13
AND SHARE OF STREET			14-14-14	-	1.1.1.1	-			1211300				



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 137 of 156

US v. Elizabeth Hol Valuation of Therand			PEM (Mod	el) Forecast - Discount	Appendix Exhibit E.5
As of February 7, 20	1994 31,000			ci i orecast - Discourte	(thousands of USD)
Forecast	Base		Discount		Discounted
Period	Cash Flow	Period	Rate	PV Factor [1]	Cash Flow [2]

			Tonoa				Sirriow [2]
2014 - Mar to Dec	\$	(60,715)	0.45	35.5%	0.8728	\$	(52,990)
2015		82,757	1.40	35.5%	0.6544		54,154
2016		469,341	2.40	35.5%	0.4829		226,661
2017		727,693	3.40	35.5%	0.3564		259,356
2018		795,348	4.40	35.5%	0.2630		209,202
2019		863,133	5.40	35.5%	0.1941		167,551
Terminal Value		2,849,710	5.40	35.5%	0.1941	_	553,185
Indicated Value						\$	1,417,121
Add: Series C-2 proc							114,390
Add: Series C-1 proc			t				6,556
Deduct: Note Payable	e, Long	Term					(40,489)
Deduct: Capital Leas	e, LT F	Portion				_	(1,897)
Total Equity Value -	Non-C	Controlling, Marke	table Basis			\$	1,495,680
	Sec. 1	Controlling, Marke	and when himself				

Notes: [1] 1 / (1 + Discount Rate) ^ Period. [2] Base Cash Flow x PV Factor.



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 138 of 156

Valuation of Theranos, Inc.	Mosley-RDV Forecast - Depreciation & Capital Expenditure Analysis
As of December 31, 2014	(thousands of USD)

	100 T	1	For the Twelve	Month	n Period Endin	g Dece	ember 31,		
Forecast Depreciation	2015		2016		2017	_	2018	_	2019
Total Revenue	\$ 990,000	\$		\$		\$		\$	
Beginning Balance - Total Fixed Assets Capital Expenditures	53,366 118,800		164,287		148,528		132,769		117,010
Fixed Assets Capital Expenditures as a % of Revenue	172,166 12.00%		164,287 0.00%		148,528 0.00%		132,769 0.00%	1	117,010 0.00%



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 139 of 156

aluation of Theranos, Inc.	Mosley-RDV	Forecast Free Cash	Appendix Exhibit I Flow to Invested Cap
s of December 31, 2014	Mosiey-RDV	i stoodat i tee odali	(thousands of US
			Tenescanda er 00
		For	the Twelve
		Mo	nth Period
		Endin	g December
			2015
evenue			
Lab Services from US Retail Pharmacies		S	470,000
Lab Services Revenue from Physicians Offices ((courier)		160,000
Lab Services Revenue from Hospitals (courier)	and the second se		290,000
OnSite Services Revenue from Hospitals			10,000
Pharmaceuticals Services			60,000
otal Revenue		S	990,000
old Herdine		*	330,000
tost of Revenue			
Lab Services from US Retail Pharmacies			188,000
Lab Services Revenue from Physicians Offices ((courier)		64,000
Lab Services Revenue from Hospitals (courier)	and the second se		87,000
OnSite Services Revenue from Hospitals			3,000
Pharmaceuticals Services			12,000
otal Cost of Revenue			354,000
Gross Margin			636,000
SM %			
11/1 /0			64.2%
Incrating Expansion			
perating Expenses	and append a publication		107 000
Research & Development (including Killer softwa	are apps & support)		127,000
CLIA Lab Operations			76,000
Data Center			25,000
Sales, Marketing & Branding			76,000
G&A			95,000
otal Operating Expenses			399,000
Operating Expense %			40.3%
BITDA			237,000
BITDA %			23.9%
Depreciation & Amortization			21,000
BIT			216,000
EBIT %			21.8%
The second s			2634
nterest Expense			- 10
Carelinan Datasa Tauna			240.000
arnings Before Taxes	100/		216,000
Income Taxes	40%		47,937
orecast After-Tax Income		1. Ge	100 000
a see state a material a contra e contra		\$	168,063
VPAT %			17.0%
Cash Flow			
			71 000
Add: Depreciation & Amortization			21,000
After-Tax Gross Cash Flow			189,063
Designed / line see to Manthes Control			110 500
Decrease / (Increase) in Working Capital			119,528
ess: Capital Expenditures		-	(118,800)
			100
ree Cash Flow		\$	189,791



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 140 of 156

US v. Elizabeth Holmes	Appendix Exhibit F.3
Valuation of Theranos, Inc.	Mosley-RDV Forecast - Discounted Cash Flow Method
As of December 31, 2014	(thousands of USD)

Forecast Period	Base Cash Flow	Period	Discount Rate	PV Factor [1]		iscounted sh Flow [2]
2015 Terminal Value	189,791 3,294,300	0.50 1.00	54.0% 54.0%	0.8058 0.6494	_	152,938 2,139,156
Indicated Value Add: Series C-2 proceeds Deduct: Note Payable, Long Ter Deduct: Capital Lease, LT Portio					\$	2,292,094 (40,805)
Total Equity Value - Non-Cont	rolling, Marketable Basi	s			\$	2,251,289
Total Equity Value - Non-Cont	rolling, Marketable Basi	is (rounded)			5	2,250,000

	_	LTM Revenue	1YR Growth Revenue	1YR Forward Revenue Growth	EBITDA Margin	D&A Margin	EBIT Margin	Capex % Revenue	Working Capital % Revenue
Upper Quartile	[1,216,653	14.1%	21.4%	19.7%	1.6%	14.9%	6.4%	84.8%
Mean	-	1,136,335	6.2%	18.0%	-2.8%	1.3%	-274.9%	5.7%	758.4%
Median		251,345	5.1%	13.0%	13.6%	0.0%	5.0%	3.9%	58.0%
Lower Quartile		98,696	2.1%	8.4%	-4.3%	0.0%	-12,2%	2.8%	35.7%
Theranos, Inc. (at 12/31/15)	5	990,000	607.1%	N/A	23.9%	2.1%	21.8%	12.0%	18.6%

		AVIC / LTM Revenue		VIC / LTM EBITDA
Upper Quartile	-	5.09x	-	19.93x
Mean		6.60x		19.85x
Median		3.20x		15.67x
Lower Quartile		2.22x	_	12.10x
Selected Multiple		4.90x		13.90x
Subject Company Base Value	\$	990,000	\$	237,000
Indicated Value at 12/31/15		4,851,000		3,294,300

Notes: [1] 1 / (1 + Discount Rate) ^ Period. [2] Base Cash Flow x PV Factor.



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 141 of 156

US v. Elizabeth Holmes	Appendix Exhibit G.1
Valuation of Theranos, Inc.	Murdoch Forecast - Depreciation & Capital Expenditure Analysis
As of February 13, 2015	(thousands of USD)

	11 M	No. Ended		1.1	For the Twelve	Mont	h Period Ending	g Dece	mber 31,		
Forecast Depreciation	1	2/31/15		2016	 2017	Ļ.	2018	1.101	2019		2020
Total Revenue	s	911,438	5	1,977,240	\$ ÷.	\$	÷.	s		\$	4
Beginning Balance - Total Fixed Assets Capital Expenditures		22,021 109,373		120,683 237,269	323,277		272,866		222,454		172,043
Fixed Assets Capital Expenditures as a % of Revenue		131,393 12.00%		357,952 12.00%	323,277 0.00%	-	272,866 0.00%		222,454 0.00%	-	172,043 0.00%



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 142 of 156

Valuation of Theranos, Inc. As of February 13, 2015		Murd	loch Forecast Free	Cash I	Flow to Invested ((thousands of
		1	1 Mo. Ended 12/31/15	Mo	the Twelve onth Period ng December 2016
Total Revenue Total Cost of Revenue Gross Margin GM %		\$	994,296 334,976 659,320 66.3%	\$	1,977,240 614,490 1,362,750 68.9%
Total Operating Expenses Operating Expense %			320,909 32.3%		501,558 25.4%
EBITDA EBITDA %			338,411 34.0%		861,192 43.6%
Partial period Adjustment Adjusted EBITDA			(28,201) 310,210	-	•
Depreciation & Amortization		_	8,000	_	19,772
EBIT %			302,210 30.4%		841,420 42.6%
Interest Expense					
Earnings Before Taxes Income Taxes	40%		302,210 82,421		841,420 336,568
Forecast After-Tax Income NPAT %		\$	219,789 22,1%	\$	504,852 25.5%
Cash Flow Add: Depreciation & Amortization After-Tax Gross Cash Flow			8,000 227,789		<u>19,772</u> 524,624
Decrease / (Increase) in Working Capital Less: Capital Expenditures			118,728 (109,373)	-	(183,094) (237,269)
Free Cash Flow		\$	237,144	\$	104,262



Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 143 of 156

US v. Elizabeth Holmes	Appendix Exhibit G.3
Valuation of Theranos, Inc.	Murdoch Forecast - Discounted Cash Flow Method
As of February 13, 2015	(thousands of USD)

Forecast Period		Base Cash Flow	Period	Discount Rate	PV Factor [1]	 iscounted ish Flow [2]
2015 - Mar to Dec 2016 Terminal Value	\$	237,144 104,262 6,327,168	0.44 1.38 1.88	82.0% 82.0% 82.0%	0.7685 0.4378 0.3245	\$ 182,244 45,642 2,053,136
Indicated Value Add: Series C-2 proceeds Deduct: Note Payable, Long Te Deduct: Capital Lease, LT Porti						\$ 2,281,022 125,000 (40,805
Total Equity Value - Non-Cont	rolling, N	larketable Basis				\$ 2,365,217
Fotal Equity Value - Non-Cont	rolling, N	larketable Basis (rounded)			\$ 2,370,000

	 LTM Revenue	1YR Growth Revenue	1YR Forward Revenue Growth	EBITDA Margin	D&A Margin	EBIT Margin	Capex % Revenue	Working Capital % Revenue
Upper Quartile	1,216,653	14.1%	21.4%	19.7%	1.6%	14.9%	6.4%	84.8%
Mean	1,136,335	6.2%	18.0%	-2.8%	1.3%	-274.9%	5.7%	758.4%
Median	251,345	5.1%	13.0%	13.6%	0.0%	5.0%	3.9%	58,0%
Lower Quartile	98,696	2.1%	8:4%	-4.3%	0.0%	-12.2%	2.8%	35.7%
Theranos, Inc. (at 12/31/16)	\$ 1,977,240	98.9%	N/A	43.6%	1.0%	42.6%	12.0%	18.6%

		IVIC / LTM Revenue	N	IVIC / LTM EBITDA
Upper Quartile		5.09x		19.93x
Mean		6.60x		19.85x
Median		3.20x		15.67x
Lower Quartile		2.22x	_	12.10x
Selected Multiple		3.20x		12.10x
Subject Company Base Value	S	1,977,240	\$	861,192
Indicated Value at 12/31/15		6,327,168		10,420,429

Notes: [1] 1 / (1 + Discount Rate) ^ Period. [2] Base Cash Flow x PV Factor.



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Appendix Exhibit H

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CARL S. SABA, MBA, CVA, ASA, ABV

Executive Summary

Carl Saba is a Partner in the Forensic and Financial Consulting Service Group at Hemming Morse, LLP. He is a recognized leader within the business valuation community, with over twenty three years of experience advising companies on complex financial analysis and valuation issues for litigation, mergers and acquisitions, tax, and financial reporting matters. His valuation expertise spans business valuation, valuation of intellectual property and other intangible assets, and valuation of options and other derivatives.

Carl has led in excess of 800 valuation engagements over the last fifteen years across a broad range of industries with niche expertise in the areas of Technology, Life Sciences, and Medical Device. He has assisted clients as a valuation expert in initial public offerings, acquisitions, corporate restructure transactions, and bankruptcy reorganizations with transaction values exceeding \$1 billion. He has also assisted clients with resolving valuation disputes with the Internal Revenue Service (IRS), and addressing valuation inquiries and reviews by the Public Companies Oversight Board (PCAOB), and Securities and Exchange Commission (SEC).

On litigation matters, Carl has served as an expert and testified on a wide range of complex business disputes involving economic damages. These have included shareholder dissolution actions, business interruption, unfair competition, patent infringement, alter ego, lost wages, and fraud claims. In most cases, he has been successful in contributing to a favorable award for clients and out of court settlement of the dispute.

Carl also has significant financial advisory experience in mergers and acquisitions due diligence and turnaround management. He has lead due diligence efforts that have assisted his clients in negotiating key deal terms, negotiated with creditors to recapitalize companies, and helped management teams define strategic direction.

Contributing to thought leadership within the valuation community is something Carl is passionate about. He co-founded and currently Chairs the Executive Committee of the Fair Value Forum, a business valuation expert group dedicated to defining best practices within the profession. He also served a term as President of the Valuation Roundtable of San Francisco and was a board member for several years. Carl has authored several articles on cutting edge valuation topics, and teaches and lectures on the topic frequently.

Carl has an MBA from the Marshall School of Business at the University of Southern California where he graduated with Honors. He earned his Bachelor's degree at U.C. Berkeley's Haas School of Business. He is a Certified Valuation Analyst with the National Association of Certified Valuators and Analysts. He is also an Accredited Senior Appraiser with the American Society of Appraisers, and Accredited in Business Valuation with the American Institute of Certified Public Accountants.



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CARL S. SABA, MBA, CVA, ASA, ABV

Employment & Education

2013 - Present	Hemming Morse, LLP
	Certified Public Accountants, Forensic and Financial Consultants
	Partner
2004 - 2013	Burr Pilger Mayer, Inc.
	Certified Public Accountants and Consultants
	Shareholder, Consulting Practice Group Leader
2003 - 2004	Comerica Bank, Palo Alto
	Vice President / Team Leader
2003	University of Southern California
	MBA, Finance Emphasis
	 Graduated in top tier of class with honors
	- Extensive graduate level coursework in finance theory, valuation, options and
	decision analysis, statistics, and business strategy
2002	Decision Education Foundation, Menlo Park
	Strategy Consultant, Strategic Decisions Group (Summer Internship)
1999 – 2001	Comerica Bank, Palo Alto
	Vice President / Corporate Banking Officer
1996 – 1999	Manufacturers Bank, San Jose
	Assistant Vice President / Corporate Banking Officer
1995	University of California, Berkeley
	Bachelors degree in Business Administration and Finance



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CARL S. SABA, MBA, CVA, ASA, ABV

Professional Credentials

- Accredited in Business Valuation (ABV)
 American Institute of Certified Public Accountants
- Accredited Senior Appraiser (ASA)
 American Society of Appraisers

Professional Affilliations

- Fair Value Forum
 - Co-Founder
 - Chair, Executive Committee, 2012-Present
 - Executive Committee, 2006-Present
- Valuation Roundtable of San Francisco
 - President, 2011-2012
 - Board Member, 2009-2014
- National Association of Certified Valuation Analysts

Publications

- "Quantifying Personal Goodwill by Analyzing Customer Retention", BVR Business Valuation Update Vol. 23 No.
 11, November 2017
- Co-author of the valuation section of The 409A
 Administration Handbook, Thomson Reuters,
 2013 Edition
- "Due Diligence Can Attract, Support an Acquisition", North Bay Business Journal, April 2013

- Certified Valuation Analyst (CVA)
 National Association of Certified Valuators and Analysts
- Graduate of Leadership San Francisco Class of 2008
- American Society of Appraisers
- American Institute of Certified Public Accountants
- Community Legal Services, East Palo Alto
- Executive Committee Board Member
- Treasurer
- Beta Gamma Sigma National Business Honor Society
- "Purchase Price Allocations Under ASC 805", A Guide to Allocating Purchase Price for Business Combinations, BPM Insights, July 2012
- "A Fresh Start for Your Financials After Chapter 11, Fair Value Measurements in Reorganization", BPM Insights, March 2012
- "Valuation Challenges for Early Stage Companies", BV Wire Issue 97-4, October 2010



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Publications continued

- "Valuation Challenges for Early Stage Companies", BV Wire Issue 97-4, October 2010
- "Stock Options for Life Science Companies, Understanding the Risks, Realizing the Rewards", CFO.com, 2009
- "Future Equity Financing in Early Stage Company Valuations", Fair Value Forum Whitepaper, 2009

Instructions and Seminars

- "Preparing your Business for a Successful 2022", Associated General Contractors (AGC) California, June 2022
- "Experts In Uncharted Waters", Association of Business Trial Lawyers Conference, October 2021
- "Auditing IRC 409A and ASC 805 Valuations", OUM & CO, September 2020
- "Fair Value Forum Case Study Unpacking Differences Between Diverse Valuation Opinions", American Society of Appraisers 2018 Fair Value Summit, November 2018
- "Case Studies in 409A Valuations", American Society of Appraisers 2017 Fair Value Summit, November 2017
- "To Dissolve or Not to Dissolve, Navigating the Waters of Shareholder Disputes", Beverly Hills Bar Association, June 2017

- "Finding Value in Valuations" The Importance of Valuations for Biotech Companies, Smart Business, 2008
- "Accounting Practices for Medical Technology", MX Magazine, July/August 2007
- "Hot Issues in Biotech and Life Sciences", California CPA, March/April 2006.
- "To Dissolve or Not to Dissolve, Overview of Section 2000 of the California Corporations Code", Ventura County Bar Association, May 2017
- "To Dissolve or Not to Dissolve, the Pros and Cons of Section 2000 of the California Corporations Code", ProVisors Lawyers and Legal Professionals Affi nity Group, April 2017
- "409A and Private Companies Valuation Update", American Society of Appraisers 2016 Fair Value Summit, November 2016
- "Developments in the Valuation of Early Stage Companies", AICPA Webcast, June 2016
- "Business Valuation in Litigation: Overview and Case Studies", American Society of Appraisers Northern California Chapter, June 2016
- "Hot Topics in Early Stage Company Valuations", Montgomery & Hansen LLP, April 2016



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Instructions and Seminars continued

- "What CPAs Should Know About Business Valuation for Estate and Gift Tax Matters", Crawford Pimentel, January 2016
- "409A Valuation Issues Update", American Society of Appraisers 2015 Fair Value Summit, November 2015
- Developments in the Valuation of Early Stage Companies", AICPA Forensic and Valuation Services Conference, November 2015
- "Stock Transactions as an Indication of Fair Value" in Common Stock Valuations", American Society of Appraisers 2014 Fair Value Summit, November 2014
- "Valuation of Winery Brand and Operations, Building Value in the Wine Business", The Seminar Group, November 2014
- "Valuation in Dissenting Shareholder Actions, Estate and Gift Tax Matters, and Transactions", McCormick Barstow LLP, September 2014
- Damages and Valuation for New or Unestablished Businesses", Winston & Strawn, May 2014
- "The Continued Appraisal Attack", 2013 California Tax. Policy Conference of the California Tax Bar, November 2013
- "Equity Compensation Valuation Issues Addressing Situational Requirements When the Guidance is Insufficient", American Society of Appraisers 2013 Fair Value Summit, November 2013

- "Mergers & Acquisitions: Better Decision Making Through Financial Modeling", AICPA Controllers Conference, November 2013
- "Auditing Fair Value Measurements under IRC 409, ASC 718, and ASC 805", OUM & Co. LLP, September 2013
- "Valuation Issues in Chapter 11 Reorganizations, Inns of Court", San Jose Federal Courthouse, July 2013
- Panelist on Valuation Issues in Bankruptcy and Financial Reporting", Association of Insolvency and Restructuring Advisors National Conference, June 2011
- "Alternative Investments, Fair Value Issues", San Francisco Nonprofit Roundtable, 2009
- The Guideline Public Company Valuation Method and Minority versus Control Value Conclusion", Valuation Roundtable of San Francisco, 2009
- Modeling Techniques for Future Rounds of Equity Financing in Early Stage Technology and Biotech Companies", Fair Value Forum, 2009
- Acquired Intangible Assets and Impairment Testing Under FAS 141, 142, 144", San Francisco State University, 2008
- "FAS 157 and Mark-to-Market or Mark-to-Make Believe Accounting?", Golden Gate University, 2008



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Instructions and Seminars continued

- "Analyzing Financial Statements, and Interpreting Financial Ratios", Building Owners and Managers Association (BOMA), 2005-2007
- "Valuations of Early Stage Companies", Frost, and Sullivan Medical Devices Conference, 2007
- Complex Capital Structures DCF with Future Capital Requirements and the Impact of Existing Shareholders", Valuation Roundtable of San Francisco Annual Seminar, 2007

Testimony

Trial and Arbitration

- Facebook, Inc. & Subsidiaries v. Commissioner of Internal Revenue (2022), United States Tax Court, San Francisco, California, Docket No. 21959-16
- Dr. Albert Cha v. Vivo Capital, LLC and Vivo Ventures VII, LLC (2022), JAMS Arbitration, San Francisco, California, Case No. 1100110703
- Jaspindar Sandhu v. Eximius Design, LLC, et. al. (2021) JAMS Arbitration, Case No. 1100104731
- Shasikant Patel v. Nitin Desai, Town Green Enterprises, LLC, Windsor Hospitality Group. LLC (2021) JAMS Arbitration, San Francisco, California, Case No. 1100107540
- Yuhui Chen v. Zining Wu, InnoGrit Corporation, Shanghai Yingren Chuang Information Technology Co., Ltd. (2020) JAMS Arbitration, San Jose, California, Case No. 1110024169

- "Audits of Investments in Private Equity Securities, Are you Ready?", San Francisco Nonprofit Roundtable, 2007
- "Valuation and Accounting under FAS 123R", Cal Society East Bay Business & Industry Group, 2006
- "Panelist on Implementation and Valuation Considerations Under FAS 123R", Cal Society Life Sciences Industry Group, 2006

- Omega Electric Supply, LLC, et al. v. Estate of Todd G. Lewis, et al. (2019) JAMS Arbitration, Case No. 1100091778
- David Senescu v. The Keating Group, Inc., et al. (2019), JAMS Arbitration, Case No. 1110022437
- San Jose, California Unlimited Prepaid, Inc. v. Air Voice Wireless, LLC (2018), JAMS Arbitration, Case No. 1220055749
- Robert Kindrachuk v. Norcal Urology Medical Group, Inc. (2018), ADR Services, Inc., Case No. 17-7127-HD
- Domain Associates, L.L.C, et al. v. Nimesh S. Shah (2018), Court of Chancery Delaware, Case No. 12921-VCL



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Testimony continued

Trial and Arbitration continued

- Michael DiSanto v. Bingham McCutchen LLP (2016), JAMS Arbitration, San Francisco County, California, Case No. 1110017742
- Gerald Laurence Trebesch v. Fall Line Capital LLC (2015), American Arbitration Association (AAA), San Francisco County, California, Arbitration No. 01-14-001-0482
- Ellen Pao v. Kleiner Perkins Caufield & Byers (2015), Superior Court, San Francisco County, California, Case Number CGC-12-520719
- Roxanne E. Doherty v. Michael Doherty (2015), Superior Court, Calaveras County, California, Case Number 11CV37584

Deposition

- Annette P. Cowan v. Allergy Asthma Clinic Burlingame, Inc. et al. (2021), Superior Court San Mateo County, California, Case No. 19-CIV-00235
- Dr. Albert Cha v. Vivo Capital, LLC and Vivo Ventures VII, LLC (2021), JAMS Arbitration, San Francisco, California, Case No. 1100110703
- Jaspindar Sandhu v. Eximius Design, LLC, et. al. (2021)
 JAMS Arbitration, Case No. 1100104731
- Kouji Yamada v. Lateef Management, LLC (2021), JAMS Arbitration, Case No. 1100109005
- Jaspindar Sandhu v. Eximius Design, LLC, et al. (2021), JAMS Arbitration, Case No. 1100104731

- Lehman Brothers Holdings Inc., as Assignee of Lehman Brothers Inc. v. Christopher J. Clifford (2014), Financial Industry Regulatory Authority (FINRA), San Francisco County, California, Arbitration No. 10-04109
- Evan MacMillan v. Groupon, Inc. (2014, American Arbitration Association, San Francisco County, California, Case Number 74 460 00054 13
- Scomas Restaurant, Inc. (2009)
 San Francisco County, California

- Anthony Scott Levandowski v. Uber Technologies, Inc. (2021), United States Bankruptcy Court, Northern District of California, San Francisco Division, Case No. 20-30242 (HLB)
- Graystone Mortgage, LLC v. Network Funding, L.P. (2021), United States District Court, District of Utah Central Division, Case No. 2:19-cv-00383-JNP
- John Nypl, et al. v. JP Morgan Chase & CO., et al. (2021), United States District Court, Southern District of New York, Case No. 15 Civ. 9300 (LCS)
- Yuhui Chen v. Zining Wu, InnoGrit Corporation, Shanghai Yingren Chuang Information Technology Co., Ltd. (2020) JAMS Arbitration, San Jose, California, Case No. 1110024169



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Testimony continued

Deposition continued

- Matthew Pliskin, Trustee of ICPW Nevada Trust v. BDO USA, LLP (2020), American Arbritration Association (AAA) Dallas, Texas, Case No. 01-19-0000-4459
- Zwick Partners, LP and Aparna Rao v. Quorum Health Corporation, et al. (2019), United States District Court Middle District of Tennessee, Case No. 3:16-cv-02475
- MD Anis Uzzaman and Fenox Venture Capital Inc. v.
 Brandon Hill (2019), Superior Court San Mateo County, California, Case No. 17-CIV-02443
- Omega Electric Supply, LLC, et al. v. Estate of Todd G. Lewis, et al. (2019), JAMS Arbitration, Case No. 1100091778
- Donald Norman v. Patrick Strateman, et al. and Intersango LLC (2019), Superior Court San Francisco County, California, Case Number CGC-17-556483
- David Senescu v. The Keating Group, Inc., et al. (2019), JAMS Arbitration, San Jose, California, Case No. 1110022437
- Unlimited Prepaid, Inc. v. Air Voice Wireless, LLC (2018), JAMS Arbitration, Case No. 1220055749
- Julia Bernstein, et al. v. Virgin America, Inc, et al. (2018), United States District Court, Northern District of California, Case No. 15-cv-02277-JST
- Domain Associates, L.L.C, et al. v. Nimesh S. Shah (2017), Court of Chancery Delaware, Case No. 12921-VCL

- State of California, et al. v. BP America Production Company, et al. (2017), Superior Court, San Francisco County, California, Case No CGC-12-522063
- Tamara B. Pow v. Mark Figueiredo (2017), Superior Court, Santa Clara County, California, Case Number 1-15-CV-282824
- Glen Ocal v. Kenneth S. Thom, Pier 39 Maritime Business Facilities, LLC dba SOMAcentral (2017), Superior Court Santa Clara County, California, Case Number 114CV266597
- Stacy Guthmann v. CC-Palo Alto, Inc. D/B/A VI at Palo Alto; Classic Residence Management Limited Partnership, et al (2017), United States District Court, Northern District of California San Jose Division, Case Number 16-CV-02680-LHK
- Crossfit, Inc. v. Jeff Martin, et al. (2017), United States District Court, District of Arizona, Case Number 2:14cv- 02277-JJT
- Joel Simkhai and Grindr Holdings Company v. KL Grindr Holdings Inc., et al. (2017), American Arbitration Association, Los Angeles County, California, Case Number 01-16-0003-7637
- Clyde Berg v. Speech Morphing Systems (2016), Superior Court, San Francisco County, California, Case Number 2014-1-CV-264586



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CARL S. SABA, MBA, CVA, ASA, ABV

Testimony continued

Deposition continued

- California Crane School Incorporated v. National Commission for the Certification of Crane Operators (2016), Superior Court, Tuolumne County, California, Case Number CV53859
- Dellon Chen v. Standard Fiber LLC (2015), Superior Court San Mateo County, California, Case Number CIV521306
- Lloyds TSB Bank, PLC v. Michael J. Kilroy (2015), Superior Court, Riverside County, California, Case Number INC 1202040
- Ellen Pao v. Kleiner Perkins Caufield & Byers (2015), Superior Court, San Francisco County, California, Case Number CGC-12-520719
- Biotechnology Value Fund, L.P. v. Celera Corporation, Credit Suisse Securities LLC (2014), United States District Court, Northern District of California San Francisco Division, Case Number CV-13-3248-DMR
- Saul R. Flores v. Group One Construction Inc (2014), Superior Court, Santa Clara County, California, Case Number 112CV215989

- John K. Palladino v. John Palladino Jr. (2014, Superior Court, San Mateo County, California, Case Number CIV512247
- Roxanne E. Doherty v. Michael Doherty (2014), Superior Court, Calaveras County, California, Case Number 11CV37584
- Evan MacMillan v. Groupon, Inc. (2013), American Arbitration Association, San Francisco County, California, Case Number 74 460 00054 13
- Margery Raffanti v. Estate of Robert Raffanti (2010), Superior Court, Santa Clara County, California
- Scomas Restaurant, Inc. (2009)
 San Francisco County, California

Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 153 of 156

US v. Elizabeth Holmes

List of Documents Considered

File Name	File name
0578N	FTR 2013
0792	FTR 2014
0792N-1	FTR 2015
1901	Mosley Materials 2
1901N	Mosley Materials 3
3233	Mosley Materials 4
3283	Mosley Materials 5
3283N	Mosley Materials 6
3527	Mosley Materials 7
3533	Mosley Materials
4859	[1] A. M. Martin, M. M. Ma Martin, M. Martin, M.
5085	Confidential Disclosure Agreement
	Confidential Overview 2_KRM
5141	Confidential Overview 3_KRM
5172	Confidential Overview 4_KRM
5190	Confidential Overview 5_KRM
5206 Attachment	Confidential Overview 6_KRM
5206	Confidential Overview 7_KRM
5209	Confidential Overview 8_KRM
5209n	Confidential Overview 9_KRM
5797	Confidential Overview 10 KRM
7753	Confidential Overview 11 KRM
7753N	Confidential Overview KRM
7753N2	Murcoch Letter and Docs
13711	Summary Cap and Projected Income-KRM
040522(Vol 13)	
	Theranos Summary
Trial Exh. 2623 Email from DY to EAH	Master Signature Page_PFM
Trial Exh. 5454 Email	Summary Cap Table_2014.02.03
2021.11.12 Expert Disclosures	Theranos Revenue Model_PFM
2021.11.13 Supplemental Expert Disclosures	Trial Exh. 4077 Email
27084	Series C-1 Transaction Documents_PVP
27085	Master Signature Page_RDV
27086	Theranos Slide Deck_RDV
27087	Trial Exh. 4859 Projected Statement of Income
27088	Amended and Restated Certificate of Inc_2010.06.30
27089	Amended and Restated Certificate of Inc_2013.03.28
27090	Amended and Restated Investor Rights Agreement 2014.01.14
27091	Amended and Restated Investor Rights Agreement_2014.02.07
27092	Amended and Restated Series C-1 Preferred Strock Purchase
2.425	Agreement 2010.07.01
27093	
27095	Amended and restated Voting Agreement
2/034	Amendment No 2 to the Series C-2 Preferred Stock Purchase
27095	Agreement_July 2014 Amendment No 3 to the Series C-2 Preferred Stock Purchase
5° 7°	Agreement July 2015
27096	C-2 Certificate of Designation_2014.02.07
27097	C-2 Preferred Stock Purchase Agreement_2017.02.03
27098	C-2 Preferred Stock Purchase Agreement_2017.02.07
27099	Certificate of Amendment of Amended and Restated Certificate of
2/033	Incorporation_2015.03.06
27100	Certificate of Correction_2014.01.14
27101	Certificate of Designation of Series C-2 Preferred Stock_2014.02.0
27102	Certificate of Increase of Series C-2 Preferred Stock 2015.03.06
27102	
	Investor Deck_DEC 2016
27104	Stockholder Confidentiality Agreement_2014.02.07
27105	Projected Statement on Income_Jan 2015
27106	Projected Statement on Income Jan 2015-1

Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 154 of 156

US v. Elizabeth Holmes List of Documents Considered

File Name	File name
27107	SEC-USAO-EPROD-000808915
27108	SEC-USAO-EPROD-000809708
27109	SEC-USAO-EPROD-000875621
27110	SEC-USAO-EPROD-001247904
27111	SEC-USAO-EPROD-001519025
27112	2_SEC-USAO-EPROD-001215410_native
27112	
	Cleveland Clinic Financials_Mar 2015
27114	SEC-USAO-EPROD-001028741
27115	01.14.13 - Board Meeting Docs including cap tables and articles
27116	10.08.13 board docs
27117	BOD Meeting Binder_2014.07.15
27118	BOD Meeting Minutes_2013.01.14
27119	BOD Meeting Minutes_compiliation 2013-2014
27120	BOD Meeting Minutes_Jan and Apr 2015
27121	BOD Presentation_2014.07.15
27122	Financials for BOD_Jan 2015
27123	Amended and RestatedJun 2010
27123	Amended and RestatedMarch 2013
Balwani-USAO	Articles_Jan 2014
FIG 703	Certificate of AmendmentMarch 2015
FIG 704	Certificate_Dec 2014
FIG 914	Certificate_Mar 2015
FIG 915	Cap Summary_Feb 2014
FIG 920	SEC2-USAO-EPROD-000509036
FIG 921	SEC2-USAO-EPROD-000550002
FIG 1137	SEC-USAO-EPROD-001038026
FIG 1139	SEC-USAO-EPROD-001064861
FIG 1140	SEC-USAO-EPROD-001240711
FIG 1141	SEC-USAO-EPROD-002733592
FIG 1143	SEC-USAO-EPROD-002788863
FIG 1143 (excel)	SEC-USAO-EPROD-002788979
FIG 1285	SEC-USAO-EPROD-003873663
FIG 1287	SEC-USAO-EPROD-005037217
FIG 1288	SEC-USAO-EPROD-005071687
FIG 1290	THER-2393504
FIG 1291	TS-0939601
FIG 1307	6379-6382
FIG 1331	6392-6393
FIG 1372	6394-6395
FIG 1461	6396
FIG 1463	6401
FIG 1476	6404-6406
FIG 1478	6408
FIG 1479	6413-6414
FIG 1484	6416-6417
FIG 1488	6418-6419
FIG 1720	6420-6422
FIG 1722	6425-6429
FIG 1723	6435
FIG 1725	111621TT(vol 33)public
FIG 1725	Trial Exh. 0504 Email
FIG 1781	Trial Exh. 1633 email
FIG 1783	Trial Exh. 3231 email
FIG 1845	page 17
FIG 1849	page 19
FIG 1855	page 21
FIG 1860	page 64

Case 5:18-cr-00258-EJD Document 1655-2 Filed 11/19/22 Page 155 of 156

US v. Elizabeth Holmes

List of Documents Considered

File Name	File name
FIG 2070	page 66
FIG 2072	page 67
FIG 2083	page 69
FIG 2290	page 95
FIG 2292	Trial Exh. 4077 email
FIG 2298	Trial Exh. 4182 email
FIG 2301	Trial Exh. 4533 email
FIG 2309	Copy of Trial Exh. 5127 Native
FIG 2310	Trial Exh. 5127 email
FIG 2379	Trial Exh. 5421 email
FIG 2394	2021.10.22 TT(Vol 23) - Shane Weber & Bryan Tolbert
FIG 2246	2021.10.26 TT(Vol 24)PUBLIC - Lisa Peterson
FIG 2447	2021.11.02 TT(Vol 26) - Lisa Peterson & Dr. Connie Cullen & Dan Mosley
FIG 2448	2021.11.03 TT(Vol 27) - Dan Mosley
FIG 2449	2021.11.04 TT(Vol 28) - Chris Lucas & Dr. Lynette Sawyer
FIG 2450	2021.11.10 TT(Vol 31) – Dr. Kingshuk Das & Alan Eisenman
FIG 2451	2021.11.15 TT(Vol 32) - Alan Eisenman
FIG 2452	2021.11.16 TT(Vol 33)PUBLIC - Danise Yam (recall) & Brian Grossman
FIG 2453	2021.11.17 TT(Vol 34) - Brian Grossman & Erin Tompkins
FIG 2468	2022.04.26 (Vol 22) - Dr. Adam Rosendorff & Lisa Peterson
FIG 6419	2022.04.27 (Vol 23) - Lisa Peterson & Dr. Sunil Dhawan
FIG 6420	2022.04.29 (Vol 24) - Patrick Mendenhall & Bryan Tolbert
FIG 6538	2022.05.10 (Vol 27) - Sarah Bennett & Daniel Mosley
FIG 6539	2022.05.11 (Vol 28) - Daniel Mosley & Alan Eisenman & Dr. Lynette
	Sawyer
FIG 6543	2022.05.13 (Vol 29) - Dr. Lynette Sawyer & Chris Lucas & Dr. Audra
FIG 6544	Zachman & Brittany Gould 2022.05.20 (Vol 32) - Brian Grossman & Defense Witness Dr. Tracy
0.4.7.2.1.3	Wooten
FIG 6548	SEC-TX-000002116_image
FIG 6706	2021.09.08 TT(Vol 4) - Opening Statements & Danise Yam
FIG 6707	2021.09.14 TT(Vol 6) - Danise Yam & Erika Cheung
FIG 6735	2022.04.05 (Vol 13) - Danise Yam
FIG 6736	07753 Attachment 1
FIG 6801	07753 Attachment 2
FIG 7680	07753 D. Yam Email 11.03.2016
FIG 7685	Interview_of_CASS_GRANDONE
FIG 7690	Trial Exh. 7098 Email
FIG 7752	SEC3-USA-EPROD-000010390_image
FIG 7774	SEC3-USA-EPROD-000016979_image
FIG 8151	SEC-EMAIL-2441_image
FIG 8152	SEC2-USAO-EPROD-001071042
FIG 8168	SEC2-USAO-EPROD-001071047
FIG 8227	SEC2-USAO-EPROD-001071050
FIG 8384	SEC2-USAO-EPROD-001071051
FIG 8385	SEC2-USAO-EPROD-005034793
FIG 8394	SEC2-USAO-EPROD-005034794
FIG 8396	SEC2-USAO-EPROD-005034795
FIG 8409	SEC2-USAO-EPROD-005034796
FIG 8413	SEC2-USAO-EPROD-005034797
FIG 8426	TS-0272877
FIG 8413	THPFM000306874
FIG 8426	THPGM0004648099
FIG 8431	TS-0338670
FIG 8443	TS-00338703

US v. Elizabeth Holmes

List of Documents Considered

File Name File name Transcripts-001962 8412 TS-0341544 2008 Financial Statements MOI_TShultz_2018.01.10 SHULTZ_TYLER-02-10-21 FTR 2010 091721TT(Vol 8) FTR 2011 113021(Vol 40) FTR 2012 S&P Capital IQ: IBISWorld, IBISWorld Industry Report 54171, Scientific Research & https://www.spglobal.com/marketintelligence/en/solutions/sp-capital-ig-Development in the US, December 2014 platform Appraisal Foundation, Uniform Standards of Professional Appraisal AICPA Statement on Standards for Valuation Services No. 1 Practice (USPAP) KeyValueData, "National Economic Report", February 2014 and Estate of Kaufman, TCM 1999-119 December 2014 JT Research LLC, "Overview of the U.S. Economy", Fourth Quarter 2014 https://www.nacva.com/cvaqualifications AICPA Accounting and Valuation Guide, Valuation of Portfolio Company Federal Reserve Bank of Philadelphia Research Department, "Survey of Investments of Venture Capital and Private Equity Funds and Other Professional Forecasters", Fourth Quarter 2014 Investment Companies, 2019, [accessed via Commerce Clearing House Accounting Research Manager Subscription] AICPA Practice Aid: Valuation of Privately-Held-Company Equity AICPA Intangible Asset Valuation Cost Approach Methods and Securities Issued as Compensation, 2013, [accessed via Commerce Procedures Clearing House Accounting Research Manager Subscription] Frank M. Burke Jr., Voluation and Valuation Planning for Closely Held Therano-no: Key CLIA Compliance Issues, Loyola University Chicago Businesses (Englewood Cliffs, NJ: Prentice-Hall, 1981). School of Law, May 5, 2022. http://blogs.luc.edu/compliance/?p=4681 International Glossary of Business Valuation Terms as published in Valuing a Business: The Analysis and Appraisal of Closely Held Companies CMS, Letter to Theranos, July 7, 2016 by Shannon P. Pratt and Alina V. Niculita, 5th Edition, Appendix A. BizMiner Industry Financial Analysis Profile; NAICS 5417: Scientific Plummer, James L., QED Report on Venture Capital Financial Analysis **Research & Development Services** Scherlis, Daniel R. and William A. Sahlman, "A Method for Valuing High-The Risk Management Association; NAICS 54171N: Research and Risk, Long Term, Investments: The Venture Capital Method," Harvard Development in the Physical, Engineering, and Life Sciences (non-Cost of Business School Teaching Note 9-288-006, Boston: Harvard Business Sales) School Publishing, 1989 William A. Sahlman, Howard H. Stevenson, Amar V. Bhide, et al., IBISWorld, NAICS 54171 (real growth) "Financing Entrepreneurial Ventures," Business Fundamental Series (Boston: Harvard Business School Publishing, 1998) Craig R. Everett, "2021 Private Capital Markets Report" (Malibu: https://www.usinflationcalculator.com/inflation/current-inflation-rates/ Pepperdine University Graziadio School of Business and Management, 2021) Dorsey, Terry, "A Portfolio Model for Venture Capital Performance Thomson Financials Private Equity Performance Index Measurement and Investment Selection," Polaris Group, Inc. January 2000 Thomson Financials Private Equity Performance Database

Case 5:18-cr-00258-EJD Document 1655-3 Filed 11/19/22 Page 1 of 3

Exhibit X (PREVIOUSLY FILED UNDER SEAL)

Wade Miquelon

In re Arizona Theranos, Inc. Litigation

1	Page 1 IN THE UNITED STATES DISTRICT COURT	1	Videotaped deposition of WADE MIQUELC	Page 2
2	FOR THE DISTRICT OF ARIZONA	2	taken at the offices of Sidley Austin LLP,	,
3	IN RE:)	3	One South Dearborn Street, Chicago, Illinois,	
4) Civil Action No.	4	Before Sheri E. Liss, IL-CSR, RPR, and	
5	THERANOS INC.,) No. 2:16-cv-2138-HRH	5	CRR, commencing at the hour of 9:08 a.m. on	
6	LITIGATION,)	6	Friday, August 9, 2019	
7		7		
8		8		
9	*** CONFIDENTIAL ***	9		
10		10		
11	VIDEOTAPED DEPOSITION OF WADE MIQUELON	11		
12	August 9, 2019	12		
13	Chicago, Illinois	13		
14		14		
15		15		
16		16		
17		17		
18 19		18		
20		19		
21		20		
22		21		
23	REPORTED BY:	22		
	Sheri E. Liss,	23		
24	CSR, RPR, CRR, CLR	24		
25	JOB NO. 10057960	25		
	Page 3			Page 4
1	Page 3	1	APPEARANCES (continued):	Page 4
1 2		1 2	APPEARANCES (continued): ON BEHALF OF ELIZABETH HOLMES:	Page 4
		2 3	ON BEHALF OF ELIZABETH HOLMES: COOLEY LLP	Page 4
2 3 4	APPEARANCES: ON BEHALF OF THE CONSUMER PLAINTIFFS: LIEFF CABRASER HEIMANN & BERNSTEIN, LLP	2 3 4	ON BEHALF OF ELIZABETH HOLMES: COOLEY LLP BY: JEFF LOMBARD, ESQ. (Via teleconference)	Page 4
2 3 4 5	APPEARANCES: ON BEHALF OF THE CONSUMER PLAINTIFFS: LIEFF CABRASER HEIMANN & BERNSTEIN, LLP BY: MELISSA GARDNER, ESQ.	2 3 4 5	ON BEHALF OF ELIZABETH HOLMES: COOLEY LLP BY: JEFF LOMBARD, ESQ. (Via teleconference) jlombard@cooley.com	Page 4
2 3 4 5 6	APPEARANCES: ON BEHALF OF THE CONSUMER PLAINTIFFS: LIEFF CABRASER HEIMANN & BERNSTEIN, LLP BY: MELISSA GARDNER, ESQ. mgardner@lchb.com	2 3 4 5 6	ON BEHALF OF ELIZABETH HOLMES: COOLEY LLP BY: JEFF LOMBARD, ESQ. (Via teleconference) jlombard@cooley.com 206.452.8796	Page 4
2 3 4 5 6 7	APPEARANCES: ON BEHALF OF THE CONSUMER PLAINTIFFS: LIEFF CABRASER HEIMANN & BERNSTEIN, LLP BY: MELISSA GARDNER, ESQ. mgardner@lchb.com 415.956.1000	2 3 4 5 6 7	ON BEHALF OF ELIZABETH HOLMES: COOLEY LLP BY: JEFF LOMBARD, ESQ. (Via teleconference) jlombard@cooley.com 206.452.8796 1700 Seventh Avenue, Suite 1900	Page 4
2 3 4 5 6 7 8	APPEARANCES: ON BEHALF OF THE CONSUMER PLAINTIFFS: LIEFF CABRASER HEIMANN & BERNSTEIN, LLP BY: MELISSA GARDNER, ESQ. mgardner@lchb.com 415.956.1000 275 Battery Street, 29th Floor	2 3 4 5 6 7 8	ON BEHALF OF ELIZABETH HOLMES: COOLEY LLP BY: JEFF LOMBARD, ESQ. (Via teleconference) jlombard@cooley.com 206.452.8796 1700 Seventh Avenue, Suite 1900 Seattle, Washington 98101-1355	Page 4
2 3 4 5 6 7 8 9	APPEARANCES: ON BEHALF OF THE CONSUMER PLAINTIFFS: LIEFF CABRASER HEIMANN & BERNSTEIN, LLP BY: MELISSA GARDNER, ESQ. mgardner@lchb.com 415.956.1000 275 Battery Street, 29th Floor San Francisco, CA 94111	2 3 4 5 6 7 8 9	ON BEHALF OF ELIZABETH HOLMES: COOLEY LLP BY: JEFF LOMBARD, ESQ. (Via teleconference) jlombard@cooley.com 206.452.8796 1700 Seventh Avenue, Suite 1900 Seattle, Washington 98101-1355 ON BEHALF OF THE WITNESS:	Page 4
2 3 4 5 6 7 8 9	APPEARANCES: ON BEHALF OF THE CONSUMER PLAINTIFFS: LIEFF CABRASER HEIMANN & BERNSTEIN, LLP BY: MELISSA GARDNER, ESQ. mgardner@lchb.com 415.956.1000 275 Battery Street, 29th Floor San Francisco, CA 94111 ON BEHALF OF WALGREENS:	2 3 4 5 6 7 8 9 10	ON BEHALF OF ELIZABETH HOLMES: COOLEY LLP BY: JEFF LOMBARD, ESQ. (Via teleconference) jlombard@cooley.com 206.452.8796 1700 Seventh Avenue, Suite 1900 Seattle, Washington 98101-1355 ON BEHALF OF THE WITNESS: LAURENCE H. LEVINE LAW OFFICES	Page 4
2 3 4 5 6 7 8 9 10 11	APPEARANCES: ON BEHALF OF THE CONSUMER PLAINTIFFS: LIEFF CABRASER HEIMANN & BERNSTEIN, LLP BY: MELISSA GARDNER, ESQ. mgardner@lchb.com 415.956.1000 275 Battery Street, 29th Floor San Francisco, CA 94111 ON BEHALF OF WALGREENS: SIDLEY AUSTIN LLP	2 3 4 5 6 7 8 9 10 11	ON BEHALF OF ELIZABETH HOLMES: COOLEY LLP BY: JEFF LOMBARD, ESQ. (Via teleconference) jlombard@cooley.com 206.452.8796 1700 Seventh Avenue, Suite 1900 Seattle, Washington 98101-1355 ON BEHALF OF THE WITNESS: LAURENCE H. LEVINE LAW OFFICES BY: LAURENCE H. LEVINE, ESQ.	Page 4
2 3 4 5 6 7 8 9 10 11 12	APPEARANCES: ON BEHALF OF THE CONSUMER PLAINTIFFS: LIEFF CABRASER HEIMANN & BERNSTEIN, LLP BY: MELISSA GARDNER, ESQ. mgardner@lchb.com 415.956.1000 275 Battery Street, 29th Floor San Francisco, CA 94111 ON BEHALF OF WALGREENS: SIDLEY AUSTIN LLP BY: KRISTEN R. SEEGER, ESQ.	2 3 4 5 6 7 8 9 10 11 12	ON BEHALF OF ELIZABETH HOLMES: COOLEY LLP BY: JEFF LOMBARD, ESQ. (Via teleconference) jlombard@cooley.com 206.452.8796 1700 Seventh Avenue, Suite 1900 Seattle, Washington 98101-1355 ON BEHALF OF THE WITNESS: LAURENCE H. LEVINE LAW OFFICES BY: LAURENCE H. LEVINE, ESQ. laurence.levine@lhlevine.com	Page 4
2 3 4 5 6 7 8 9 10 11	APPEARANCES: ON BEHALF OF THE CONSUMER PLAINTIFFS: LIEFF CABRASER HEIMANN & BERNSTEIN, LLP BY: MELISSA GARDNER, ESQ. mgardner@lchb.com 415.956.1000 275 Battery Street, 29th Floor San Francisco, CA 94111 ON BEHALF OF WALGREENS: SIDLEY AUSTIN LLP	2 3 4 5 6 7 8 9 10 11	ON BEHALF OF ELIZABETH HOLMES: COOLEY LLP BY: JEFF LOMBARD, ESQ. (Via teleconference) jlombard@cooley.com 206.452.8796 1700 Seventh Avenue, Suite 1900 Seattle, Washington 98101-1355 ON BEHALF OF THE WITNESS: LAURENCE H. LEVINE LAW OFFICES BY: LAURENCE H. LEVINE, ESQ.	Page 4
2 3 4 5 6 7 8 9 10 11 12 13	APPEARANCES: ON BEHALF OF THE CONSUMER PLAINTIFFS: LIEFF CABRASER HEIMANN & BERNSTEIN, LLP BY: MELISSA GARDNER, ESQ. mgardner@lchb.com 415.956.1000 275 Battery Street, 29th Floor San Francisco, CA 94111 ON BEHALF OF WALGREENS: SIDLEY AUSTIN LLP BY: KRISTEN R. SEEGER, ESQ. kseeger@sidley.com	2 3 4 5 6 7 8 9 10 11 12 13	ON BEHALF OF ELIZABETH HOLMES: COOLEY LLP BY: JEFF LOMBARD, ESQ. (Via teleconference) jlombard@cooley.com 206.452.8796 1700 Seventh Avenue, Suite 1900 Seattle, Washington 98101-1355 ON BEHALF OF THE WITNESS: LAURENCE H. LEVINE LAW OFFICES BY: LAURENCE H. LEVINE, ESQ. laurence.levine@lhlevine.com 312.927.0625 189 East Lake Shore Drive, 16th Floor	Page 4
2 3 4 5 6 7 8 9 10 11 12 13 14	APPEARANCES: ON BEHALF OF THE CONSUMER PLAINTIFFS: LIEFF CABRASER HEIMANN & BERNSTEIN, LLP BY: MELISSA GARDNER, ESQ. mgardner@lchb.com 415.956.1000 275 Battery Street, 29th Floor San Francisco, CA 94111 ON BEHALF OF WALGREENS: SIDLEY AUSTIN LLP BY: KRISTEN R. SEEGER, ESQ. kseeger@sidley.com 312.853.7450	2 3 4 5 6 7 8 9 10 11 12 13 14	ON BEHALF OF ELIZABETH HOLMES: COOLEY LLP BY: JEFF LOMBARD, ESQ. (Via teleconference) jlombard@cooley.com 206.452.8796 1700 Seventh Avenue, Suite 1900 Seattle, Washington 98101-1355 ON BEHALF OF THE WITNESS: LAURENCE H. LEVINE LAW OFFICES BY: LAURENCE H. LEVINE, ESQ. laurence.levine@lhlevine.com 312.927.0625	Page 4
2 3 4 5 6 7 8 9 10 11 12 13 14 15	APPEARANCES: ON BEHALF OF THE CONSUMER PLAINTIFFS: LIEFF CABRASER HEIMANN & BERNSTEIN, LLP BY: MELISSA GARDNER, ESQ. mgardner@lchb.com 415.956.1000 275 Battery Street, 29th Floor San Francisco, CA 94111 ON BEHALF OF WALGREENS: SIDLEY AUSTIN LLP BY: KRISTEN R. SEEGER, ESQ. kseeger@sidley.com 312.853.7450 One South Dearborn Street	2 3 4 5 6 7 8 9 10 11 12 13 14 15	ON BEHALF OF ELIZABETH HOLMES: COOLEY LLP BY: JEFF LOMBARD, ESQ. (Via teleconference) jlombard@cooley.com 206.452.8796 1700 Seventh Avenue, Suite 1900 Seattle, Washington 98101-1355 ON BEHALF OF THE WITNESS: LAURENCE H. LEVINE LAW OFFICES BY: LAURENCE H. LEVINE, ESQ. laurence.levine@lhlevine.com 312.927.0625 189 East Lake Shore Drive, 16th Floor	Page 4
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Case 5:18-cr-00258-EJD Document 1655-3 Filed 11/19/22 Page 3 of 3 Confidential

Wade Miguelon

In re Arizona Theranos, Inc. Litigation

			, U
1	Page 237 Foundation.	1	Page 238 puncture by their very nature but over time this
2	BY THE WITNESS:	2	should be very, very small.
3	A. I don't recall.	3	Q. And what was your understanding about
4	BY MS. HOWARD:	4	how those tests that required venous puncture would
5	Q. Did you have any understanding of how	5	be analyzed?
6	Theranos when it was partnering with Walgreens was	6	A. My understanding is the ones that
7	addressing throughput issues as you were rolling out	7	required venous puncture would be done on a
8	more and more testing locations?	8	traditional lab test machine or perhaps outsourced
9	MR. LEVINE: Objection. Foundation.	9	to a lab. They would not be run on the Edison.
10	BY THE WITNESS:	10	MS. HOWARD: I don't have any further
11	A. I was not involved in that.	11	questions. Thank you.
12	BY MS. HOWARD:	12	MR. LEVINE: None here.
13	Q. Did you have any understanding as to	13	MS. SEEGER: We'll reserve signature.
14	whether Theranos was using commercial testing	14	MS. GARDNER: Plaintiffs object to three
15	equipment?	15	exhibits that don't have Bates numbers for this
16	A. I had a limited understanding.	16	litigation, and request that Balwani's counsel
17	Q. And what was your understanding?	17	substitute and produce copies or meet an confer
18	A. My understanding was that two things,	18	about the issue.
19	one is that they had some commercial equipment which	19	MS. HOWARD: For clarity, those are
20	was used to be able to do, again, I don't know if	20	Exhibit Nos. 285, 286 and 289; is that correct?
21	calibration is the right word, but this back and	21	MS. GARDNER: Yes, that is correct.
22	forth checking of traditional equipment versus	22	THE VIDEOGRAPHER: This concludes the
23	Theranos equipment. And I also recall that Sunny	23	deposition. The time is 4:38. Off the record.
24	and Elizabeth saying that when we started up that	24	(Whereupon, the proceedings
25	there might always be some tests that require venous	25	were concluded.)
	and the might amayo be come toole that require vehicue		
1	Page 239	1	Page 240 I further certify that I am not counsel
1 2		1	I further certify that I am not counsel
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