# UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

FORM 10-Q

washington, D.C. 20

## **☒** QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the quarterly period ended March 31, 2018

OR

☐ TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from to

Commission File Number 001-35366

## FORTRESS BIOTECH, INC.

(Exact name of registrant as specified in its charter)

Delaware 20-5157386

(State or other jurisdiction of incorporation or organization)

(I.R.S. Employer Identification No.)

2 Gansevoort Street, 9th Floor New York, New York 10014

(Address including zip code of principal executive offices)

(781) 652-4500

(Registrant's telephone number, including area code)

Indicate by check mark whether the registrant: (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes  $\boxtimes$  No  $\square$ 

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T ( $\S232.405$  of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes  $\boxtimes$  No  $\square$ 

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act:

Large accelerated filer Non-accelerated filer	☐ ☐ (Do not check if a smaller reporting company)	Accelerated filer Smaller reporting company Emerging growth company	
0 00	npany, indicate by check mark if the registrant has elected no nancial accounting standards provided pursuant to Section 13	1 1 2	ing
Indicate by check mark wh	nether registrant is a shell company (as defined in Rule 12b-2	2 of the Exchange Act). Yes □ No ⊠	
As of May 09, 2018, there	were 52,902,146 shares of Common Stock of the issuer outs	standing.	

## FORTRESS BIOTECH, INC. AND SUBSIDIARIES Quarterly Report on Form 10-Q

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## **Condensed Consolidated Balance Sheets**

(\$ in thousands except for share and per share amounts)

	M	March 31, 2018		cember 31, 2017
	(U:	naudited)		
ASSETS				
Current assets				
Cash and cash equivalents	\$	124,020	\$	113,915
Accounts receivable		8,314		7,758
Short-term investments (certificates of deposit)		37,002		36,002
Cash deposits with clearing organizations		1,041		1,041
Receivables from broker-dealers and clearing organizations		8,464		7,395
Forgivable loans receivable		1,534		1,616
Securities owned, at fair value		4,278		1,985
Inventory		222		171
Other receivables - related party		944		618
Prepaid expenses and other current assets		14,338		12,680
Total current assets		200,157		183,181
Property and equipment, net		12,278		9,513
Restricted cash		17,387		17,387
Long-term investments, at fair value		1,272		1,390
Intangible assets		14,400		15,223
Goodwill		18,645		18,645
Other assets		936		611
Total assets	\$	265,075	\$	245,950
LIABILITIES AND STOCKHOLDERS' EQUITY Current liabilities	Ф	44.525	Ф	26.127
Accounts payable and accrued expenses	\$	44,725	\$	36,127
Accounts payable and accrued expenses - related party		124		222
Accrued commissions and payroll payable		10,713		10,065
Deferred clearing and marketing credits		733		786
Securities sold, not yet purchased, at fair value		-		151
Warrants issued - National		6,671		5,597
Interest payable		332		315
Interest payable - related party		657		669
Notes payable, short-term (net of debt discount of \$0 and \$973 at March 31, 2018 and December				0.520
31, 2017, respectively)		12 (51		8,528
Subsidiary convertible note, short-term, at fair value		12,651		4,700
Deferred revenue		690		- 07
Derivative warrant liability		78		87
Other current liabilities		1,952		181
Total current liabilities		79,326		67,428
Notes payable, long-term (net of debt discount of \$1,047 and \$62 at March 31, 2018 and December				,
31, 2017, respectively)		73,444		43,222
Subsidiary convertible note, long-term, at fair value		-		10,059
Other long-term liabilities		4,759		4,739
Total liabilities		157,529		125,448

**Condensed Consolidated Balance Sheets (Continued)** 

(\$ in thousands except for share and per share amounts)

	March 31, 2018	December 31, 2017
	(Unaudited)	
Stockholders' equity		
Preferred stock, \$.001 par value, 15,000,000 authorized, 5,000,000 designated Series A shares 1,000,000 shares issued and outstanding as of March 31, 2018 and December 31, 2017; liquidation value of \$25.00 per share	1	1
Common stock, \$.001 par value, 100,000,000 shares authorized, 52,686,537 and 50,991,285 shares	1	1
issued and outstanding as of March 31, 2018 and December 31, 2017, respectively	52	51
Common stock issuable, 104,958 and 158,015 shares as of March 31, 2018 and December 31, 2017,		
respectively	489	500
Additional paid-in-capital	374,254	364,148
Accumulated deficit	(333,145)	(312,127)
Total stockholders' equity attributed to the Company	41,651	52,573
Non-controlling interests	65,895	67,929
Total stockholders' equity	107,546	120,502
Total liabilities and stockholders' equity	\$ 265,075	\$ 245,950

## **Condensed Consolidated Statements of Operations**

(\$ in thousands except for share and per share amounts)
(Unaudited)

	Three Month	Three Months Ended March 31		
	2018		2017	
Revenue		_		
Fortress				
Product revenue, net	\$ 5,50	9 \$	2,085	
Revenue - from a related party	39	)4	693	
Net Fortress revenue	5,90	13	2,778	
National				
Commissions	25,61		24,506	
Net dealer inventory gains	2,19		2,511	
Investment banking	12,70		7,061	
Investment advisory	5,33	3	3,385	
Interest and dividends	63	31	716	
Transfer fees and clearing services	2,29	7	2,498	
Tax preparation and accounting	52	23	856	
Other	22	26	371	
Total National revenue	49,52	22	41,904	
Net revenue	55,42	25	44,682	
Operating expenses				
Fortress				
Cost of goods sold - product revenue	1,47	<sup>1</sup> 2	469	
Research and development	24,95	8	7,110	
Research and development – licenses acquired	g	97	1,294	
General and administrative	13,54	18	10,252	
Total Fortress operating expenses	40,07		19,125	
National				
Commissions, compensation and fees	43,56	51	37,258	
Clearing fees	74	13	738	
Communications	76	50	722	
Occupancy	95	55	1,008	
Licenses and registration	63	37	405	
Professional fees	1,39	)3	1,263	
Interest		2	4	
Underwriting costs	14	15	-	
Depreciation and amortization	85	59	506	
Other administrative expenses	1,78	31	1,230	
Total National operating expenses	50,83		43,134	
Total operating expenses	90,91	. 1	62,259	
Loss from operations	(35,48		(17,577	

Condensed Consolidated Statements of Operations (Continued)
(\$ in thousands except for share and per share amounts)
(Unaudited)

	Three Months E	Ended March 31,
	2018	2017
Other income (expenses)		
Interest income	284	136
Interest expense and financing fee	(2,083)	(698)
Change in fair value of derivative liabilities	(1,065)	4,342
Change in fair value of subsidiary convertible note	250	(97)
Change in fair value of investments	(118)	(668)
Total other income (expenses)	(2,732)	3,015
Net loss	(38,218)	(14,562)
Less: net loss attributable to non-controlling interests	(17,200)	(2,580)
Net loss attributable to common stockholders	\$ (21,018)	\$ (11,982)
Basic and diluted net loss per common share	\$ (0.49)	\$ (0.30)
busic and direct ross per common share	\$ (0.49)	φ (0.30)
Weighted average common shares outstanding—basic and diluted	42,518,403	40,357,711

## Condensed Consolidated Statement of Changes in Stockholders' Equity

(\$ in thousands) (Unaudited)

	Series A Pref	Council Stock	Commo	a Stook	Common Shares	Additional Paid-In	Aggumulated	Non Controlling	Total Stockholders'
	Shares	Amount	Shares	Amount	Issuable	Capital	Deficit	Interests	Equity
Balance at December 31,	Shares	Amount	Shares	rinount	Issuubic	Сирии	Denen	Interests	Equity
2017	1,000,000	\$	1 50,991,285	\$ 51	\$ 500	\$ 364,148	\$ (312,127)	\$ 67,929	\$ 120,502
Stock-based compensation						5.052			5.053
expense	-		1 470 440	- 1	_	5,053	-	-	5,053
Issuance of restricted stock Issuance of subsidiaries'	-		- 1,472,440	1	-	(1)	-	-	-
common shares for									
license expenses						22			22
Subsidiary's offering, net	-			-	-	20.844	-	-	20.844
Exercise of subsidiary's	-			-	-	20,044	-	-	20,044
warrants for cash	_					96		_	96
Issuance of common stock				_	_	70		_	70
for at-the-market offering	_		- 64,797	_	_	318	_	_	318
At-the-market offering cost	_			_	_	(6)	_	_	(6)
Common shares issuable						(0)			(0)
for 2017 Subordinated									
Note Financing interest									
expense	-			_	489	-	-	-	489
Common shares issued for									
2017 Subordinated Note									
Financing interest									
expense	-		- 158,015	-	(500)	500	-	-	-
Preferred A dividends									
declared and paid	-			-	-	(586)	-	-	(586)
Offering cost and financing									
fee paid to NHLD	-			-	-	(439)	-	-	(439)
Acquisition of business -									
NHLD	-			-	-	(529)	-	-	(529)
Non-controlling interest in									
subsidiaries	-			-	-	(15,166)	-	15,166	-
Net loss attributable to non-								(4 = = = = = = = = = = = = = = = = = = =	(4 = 000)
controlling interest	-			-	-	-	-	(17,200)	(17,200)
Net loss attributable to							(01.610)		(21 212)
common stockholders			<u>-</u>				(21,018)		(21,018)
Balance at March 31, 2018	1,000,000	\$	1 52,686,537	\$ 52	\$ 489	\$ 374,254	\$ (333,145)	\$ 65,895	\$ 107,546

## **Condensed Consolidated Statements of Cash Flows**

(\$ in thousands) (Unaudited)

	Three Months Ended March 31			d March 31,
		2018		2017
Cash Flows from Operating Activities:	'			
Net Loss	\$	(38,218)	\$	(14,562)
Reconciliation of net loss to net cash used in operating activities:				
Depreciation expense		365		274
Amortization of intangible asset		690		408
Amortization of debt discount		341		246
Amortization of product revenue license fee		133		133
Amortization of forgivable loans to registered representatives		160		201
Amortization of deferred clearing credit		(53)		(52)
Stock-based compensation expense		5,053		2,929
Issuance of subsidiaries' common shares for research and development expenses		-		30
Recovery of doubtful accounts		20		(115)
Common shares issuable for 2017 Subordinated Note Financing interest expense		489		-
Change in fair value of investments		118		668
Change in fair value of derivative liabilities		1,065		(4,342)
Change in fair value of subsidiary convertible note		(250)		97
Research and development-licenses acquired, expense		97		1,265
Change in fair value of subsidiaries' assets and liabilities		4		11
Increase (decrease) in cash and cash equivalents resulting from changes in operating assets				
and liabilities:				
Accounts receivable		(556)		462
Receivables from broker-dealers and clearing organizations		(1,069)		499
Forgivable loans receivable		(78)		(17)
Securities owned, at fair value		(2,293)		1,151
Inventory		(51)		(1)
Other receivables - related party		(326)		756
Prepaid expenses and other current assets		(1,939)		635
Accounts payable and accrued expenses		8,258		(1,882)
Accounts payable and accrued expenses - related party		(98)		-
Securities sold, but not yet purchased, at fair value		(151)		(297)
Interest payable		17		2
Interest payable - related party		(12)		30
Deferred revenue		690		-
Other long-term liabilities		19		(4)
Net cash used in operating activities	_	(27,575)		(11,475)
Net eash used in operating activities		(21,313)		(11,473)
Cash Flows from Investing Activities:				
Purchase of research and development licenses		(75)		(665)
Purchase of property and equipment		(801)		(261)
Purchase of short-term investment (certificates of deposit)		(25,000)		-
Redemption of short-term investment (certificates of deposit)		24,000		-
Security deposits refund		-		3
Acquisition of business - National		(124)		(19)
Collection on notes receivable		25		_
Net cash used in investing activities		(1,975)		(942)

## **Condensed Consolidated Statements of Cash Flows (Continued)**

(\$ in thousands) (Unaudited)

	Three Months Ended March			d March 31,
		2018		2017
Cash Flows from Financing Activities:				
Inter-company costs related to the issuance of Series A preferred stock		1,298		_
Payment of Preferred A dividends		(586)		_
Proceeds from at-the-market offering		229		_
Payment of cost related to at-the-market offering		(6)		_
Proceeds from subsidiaries' offering		23,011		55,904
Payment of costs related to subsidiaries' offering		(2,167)		(2,998)
Proceeds from exercise of subsidiary's warrants		96		(2,770)
Proceeds from 2017 Subordinated Note Financing		-		3,254
Payment of debt issuance costs associated with 2017 Subordinated Note Financing		(255)		3,231
Proceeds from Opus Credit Facility		(233)		2,000
Proceeds from 2018 Venture Notes		21,707		2,000
Payment of debt issue costs associated with 2018 Venture Notes		(1,814)		_
Payment of subsidiaries' Convertible Note		(1,858)		_
Net cash provided by financing activities		39,655	-	58,160
Net eash provided by financing activities		39,033	_	38,100
Net increase in cash and cash equivalents, cash deposits with clearing organizations and restricted				
cash		10 105		45 742
		10,105		45,743
Cash and cash equivalents, cash deposits with clearing organizations and restricted cash at beginning				
of period		132,343		105,184
Cash and cash equivalents, cash deposits with clearing organizations and restricted cash at end				
of period	\$	142,448	\$	150,927
Supplemental disclosure of cash flow information:				
Fortress				
Cash paid for interest - non-related party	\$	394	\$	58
Cash paid for interest - related party	\$	853	\$	-
WIII D				
NHLD Cash paid for interest	\$	2	\$	4
Cash paid for income taxes	\$		\$	81
Cash part for income taxes	ψ	13	Ψ	01
Supplemental disclosure of non-cash financing and investing activities:				
Fortress				
Issuance of restricted stock	\$	1	\$	1
Issuance of warrants in conjunction with 2017 Subordinated Note Financing	\$	-	\$	206
Receivable from ATM issuances	\$	89	\$	-
Debt discount related to Opus Credit Facility	\$	-	\$	158
Common shares issuable for license acquired	\$	-	\$	1,682
Common shares issued for 2017 Subordinated Note Financing interest expense	\$	500	\$	_
Property, plant and equipment included in account payable and accrued liabilities	\$	2,321		-
NHLD	Φ.	_	Ф	
Fixed assets (acquired but not paid)	\$	9	\$	23
Business acquired	\$	124	\$	19

Notes to Condensed Consolidated Financial Statements (Unaudited)

## 1. Organization and Description of Business

Fortress Biotech, Inc. ("Fortress" or the "Company") is a biopharmaceutical company dedicated to acquiring, developing and commercializing novel pharmaceutical and biotechnology products. Fortress develops and commercializes products both within Fortress and through certain of its subsidiary companies, also referred to as the "Fortress Companies." Additionally, the Company maintains a controlling interest in National Holdings Corporation, a diversified independent brokerage company (together with its subsidiaries, referred to as "NHLD" or "National"). In addition to its internal development programs, the Company leverages its biopharmaceutical business expertise and drug development capabilities and provides funding and management services to help the Fortress Companies achieve their goals. The Company and the Fortress Companies may seek licenses, acquisitions, partnerships, joint ventures and/or public and private financings to accelerate and provide additional funding to support their research and development programs.

As of March 31, 2018, in addition to National, the Company has several consolidated Fortress Companies, some of which contain product licenses, including: Aevitas Therapeutics, Inc. ("Aevitas"), Avenue Therapeutics, Inc. ("Avenue"), Caelum Biosciences, Inc. ("Caelum"), Cellvation, Inc. ("Cellvation"), Checkpoint Therapeutics, Inc. ("Checkpoint"), Cyprium Therapeutics, Inc. ("Cyprium"), Helocyte, Inc. ("Helocyte"), Journey Medical Corporation ("Journey" or "JMC"), Mustang Bio, Inc. ("Mustang") and Tamid Bio, Inc. ("Tamid"). The Company also has operational subsidiaries CB Securities Corporation ("CB Securities"), Innmune Limited and FBIO Acquisition, Inc. (the acquisition vehicle we used to obtain National) and acquisition companies for which the Company is actively seeking product candidate licenses, including Coronado SO Co. ("Coronado SO"), Escala Therapeutics, Inc. ("Escala"), GeneXion Oncology, Inc. ("GeneXion"), Fortress Biotech China, Inc. ("Fortress China"), FBIO Acquisition Corp. IV and FBIO Acquisition Corps. VI - XIV.

## Liquidity and Capital Resources

Since inception, the Company's operations have been financed primarily through the sale of equity and debt securities and the proceeds from the exercise of warrants and stock options. The Company has incurred losses from operations and negative cash flows from operating activities since inception and expects to continue to incur substantial losses for the next several years as it continues to fully develop and prepare regulatory filings and obtain regulatory approvals for its existing and new product candidates. The Company's current cash and cash equivalents are sufficient to fund operations for at least the next 12 months. However, the Company will need to raise additional funding through strategic relationships, public or private equity or debt financings, grants or other arrangements to fully develop and prepare regulatory filings and obtain regulatory approvals for our existing and new product candidates, fund operating losses, and, if deemed appropriate, establish or secure through third parties manufacturing for our potential products, sales and marketing capabilities. If such funding is not available or not available on terms acceptable to the Company, the Company's current development plan and plans for expansion of its general and administrative infrastructure will be curtailed. The Company also has the ability, subject to limitations imposed by Rule 144 of the Securities Act of 1933 and other applicable laws and regulations, to raise money from the sale of common stock of the public companies in which it has ownership.

## 2. Summary of Significant Accounting Policies

## **Basis of Presentation and Principles of Consolidation**

The accompanying unaudited interim condensed consolidated financial statements have been prepared in accordance with generally accepted accounting principles in the United States of America ("GAAP") for interim financial information and the instructions to Form 10-Q and Article 10 of Regulation S-X. Accordingly, they do not include all of the information and footnotes required by GAAP for complete financial statements. In the opinion of management, the unaudited interim condensed consolidated financial statements reflect all adjustments, which include only normal recurring adjustments necessary for the fair statement of the balances and results for the periods presented. Certain information and footnote disclosures normally included in the Company's annual financial statements prepared in accordance with GAAP have been condensed or omitted. These condensed consolidated financial statement results are not necessarily indicative of results to be expected for the full fiscal year or any future period.

The unaudited condensed consolidated financial statements and related disclosures have been prepared with the presumption that users of the unaudited condensed consolidated financial statements have read or have access to the audited consolidated financial statements for the preceding fiscal year for each of the Company, Avenue, Checkpoint, Mustang and National. Accordingly, these unaudited condensed consolidated financial statements should be read in conjunction with the Company's Form 10-K, which was filed with the United States Securities and Exchange Commission ("SEC") on March 16, 2018, from which the Company derived the balance sheet data at December 31, 2017, as well as National's Form 10-K and 10-K/A filed with the SEC on December 22, 2017 and January 17, 2018, respectively and their Form 10-Q, filed with the SEC on February 14, 2018, Checkpoint's Form 10-K filed with the SEC on March 16, 2018, Mustang's Form 10-K, filed with the SEC on March 29, 2018, and Avenue's Form 10-K, filed with the SEC on March 1, 2018.

Notes to Condensed Consolidated Financial Statements (Unaudited)

The Company's unaudited condensed consolidated financial statements include the accounts of the Company and its subsidiaries: Avenue, Aevitas, Caelum, CB Securities, Cellvation, Coronado SO, Checkpoint, Cyprium, Escala, GeneXion, Helocyte, Innmune Limited, JMC, Mustang, NHLD, Tamid, Coronado SO, Escala, Fortress China, FBIO Acquisition Corp. IV and FBIO Acquisition Corps. VI - XIV. All intercompany balances and transactions have been eliminated.

The National assets acquired and liabilities assumed and revenues and expenses are reported on a one quarter lag. Therefore, the National assets acquired and liabilities assumed included in these condensed consolidated financial statements as of March 31, 2018 are actually the assets and liabilities as of December 31, 2017 and the revenues and expenses included in these condensed consolidated financial statements for the quarter ending March 31, 2018 are actually the revenues and expenses for the quarter ending December 31, 2017.

The preparation of the Company's unaudited condensed consolidated financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the unaudited condensed consolidated financial statements and the reported amounts of expenses during the reporting period.

#### **Use of Estimates**

The Company's unaudited condensed consolidated financial statements include certain amounts that are based on management's best estimates and judgments. The Company's significant estimates include, but are not limited to, useful lives assigned to long-lived and intangible assets, fair value measurements, stock-based compensation, common stock issued to acquire licenses, investments, accrued expenses, derivative warrant liabilities, revenue with customers, provisions for income taxes and contingencies. Due to the uncertainty inherent in such estimates, actual results may differ from these estimates.

## **Significant Accounting Policies**

There have been no material changes to the Company's significant accounting policies previously disclosed in the Company's Form 10-K filed with the SEC on March 16, 2018, with the exception of revenue recognition.

## **Recently Adopted Accounting Pronouncements**

In May 2014, the Financial Accounting Standards Board ("FASB") issued Accounting Standards Update ("ASU") No. 2014-09, Revenue from Contracts with Customers (Topic 606) (ASU 2014-09) as modified by ASU No. 2015-14, Revenue from Contracts with Customers (Topic 606): Deferral of the Effective Date, ASU 2016-08, Revenue from Contracts with Customers (Topic 606): Principal versus Agent Considerations (Reporting Revenue Gross versus Net), ASU No. 2016-10, Revenue from Contracts with Customers (Topic 606): Identifying Performance Obligations and Licensing, and ASU No. 2016-12, Revenue from Contracts with Customers (Topic 606): Narrow-Scope Improvements and Practical Expedients." The impact of adoption on January 1, 2018 is primarily related to National's investment banking expenses of \$0.1 million that were deferred as of September 30, 2017 (National's financials are included in the Company's financials at a three-month lag) under the previously existing accounting guidance, which would have been expensed in prior periods under the new revenue standard. Since the impact was immaterial, the Company elected not to record this amount in retained earnings as of January 1, 2018. The adoption of this standard did not have a material impact on the Company's revenue. Accordingly, the new revenue standard will be applied prospectively in the Company's financial statements from January 1, 2018 forward and reported financial information for historical comparable periods will not be revised and will continue to be reported under the accounting standards in effect during those historical periods. Further, the adoption of ASU 2014-09 did not have a material impact on net Fortress revenue.

The new revenue guidance does not apply to revenue associated with financial instruments, including National's warrants and securities that are accounted for under other U.S. GAAP, and as a result, did not have an impact on the elements of our Consolidated Statements of Operations most closely associated with financial instruments. The new revenue standard primarily impacts the following of our revenue recognition and presentation accounting policies:

- Investment Banking Revenues. Advisory fees from mergers and acquisitions engagements are recognized at the point in time when the related transaction is completed, as the performance obligation is to successfully broker a specific transaction.
- Investment Banking Advisory Expenses. Historically, expenses associated with investment banking advisory assignments were deferred until reimbursed by the client, the related fee revenue is recognized or the engagement is otherwise concluded. Under the new revenue standard, expenses are deferred only to the extent they are explicitly reimbursable by the client and the related revenue is recognized when all performance obligations are met. All other investment banking advisory related expenses are expensed as incurred.

Notes to Condensed Consolidated Financial Statements (Unaudited)

· Investment Banking Underwriting and Advisory Expenses. Expenses have historically been recorded net of client reimbursements and/or netted against revenues. Under the new revenue standard, all investment banking expenses will be recognized within their respective expense category on the consolidated income statement and any expense reimbursements will be recognized as investment banking revenues (i.e., expenses are no longer recorded net of client reimbursements and are not netted against revenues).

The new revenue standard requires enhanced disclosures, which are included in footnote 21 to our condensed consolidated financial statements beginning with the three months ended March 31, 2018.

#### Contract Assets

Contract assets represent the Company's right to consideration in exchange for goods or services that the Company has transferred to a customer, excluding unconditional rights to consideration that are presented as receivables.

#### Contract Liabilities

Contract liabilities represent the Company's obligation to deliver products or provide data to customers in the future for which cash has already been received.

In May 2017, the FASB issued ASU 2017-09, *Compensation-Stock Compensation (Topic 718): Scope of Modification Accounting.* ASU 2017-09 provides clarity and reduces both (1) diversity in practice and (2) cost and complexity when applying the guidance in Topic 718, to a change to the terms or conditions of a share-based payment award. The amendments in ASU 2017-09 should be applied prospectively to an award modified on or after the adoption date. This ASU is effective for fiscal years, and interim periods within those years, beginning after December 15, 2017. The Company adopted ASU No. 2017-09 as of January 1, 2018. The adoption of this update did not impact the Company's condensed consolidated financial statements and related disclosures.

In August 2016, the FASB issued ASU 2016-15, Statement of Cash Flows - Classification of Certain Cash Receipts and Cash Payments, which addresses eight specific cash flow issues with the objective of reducing the existing diversity in practice in how certain cash receipts and cash payments are presented and classified in the statement of cash flows. The standard is effective for fiscal years beginning after December 15, 2017, including interim periods within those fiscal years. Early adoption is permitted, including adoption in an interim period. The Company adopted ASU No. 2016-15 as of January 1, 2018. The adoption of this update did not impact the Company's condensed consolidated financial statements and related disclosures.

In January 2016, the FASB issued ASU 2016-01, Financial Instruments - Overall (Subtopic 825-10): Recognition and Measurement of Financial Assets and Liabilities. ASU No. 2016-01 requires several targeted changes including that equity investments (except those accounted for under the equity method of accounting, or those that result in consolidation of the investee) be measured at fair value with changes in fair value recognized in net income. The new guidance also changes certain disclosure requirements and other aspects of current U.S. GAAP. Amendments are to be applied as a cumulative-effect adjustment to the balance sheet as of the beginning of the fiscal year of adoption. ASU 2016-01 is effective for fiscal years, and interim periods within those years, beginning after December 15, 2017. The Company adopted ASU No. 2016-01 as of January 1, 2018. The adoption of this update did not impact the Company's consolidated financial statements and related disclosures.

Notes to Condensed Consolidated Financial Statements (Unaudited)

## **Recent Accounting Pronouncements**

In February 2016, the FASB issued ASU 2016-02, *Leases (Topic 842)*. ASU 2016-02 requires an entity to recognize right-of-use assets and lease liabilities on its balance sheet and disclose key information about leasing arrangements. Lessees and lessors are required to disclose qualitative and quantitative information about leasing arrangements to enable a user of the financial statements to assess the amount, timing and uncertainty of cash flows arising from leases. ASU 2016-02 is effective for fiscal years, and interim periods within those years, beginning after December 15, 2018. Early adoption is permitted. The Company is currently evaluating the impact, if any, of adoption of ASU 2016-02 on its condensed consolidated financial statements and related disclosures.

In June 2016, the FASB issued ASU 2016-13, Financial Instruments - Credit Losses (Topic 326): Measurement of Credit Losses on Financial Instruments. ASU 2016-13 requires that expected credit losses relating to financial assets are measured on an amortized cost basis and available-for-sale debt securities be recorded through an allowance for credit losses. ASU 2016-13 limits the amount of credit losses to be recognized for available-for-sale debt securities to the amount by which carrying value exceeds fair value and also requires the reversal of previously recognized credit losses if fair value increases. The new standard will be effective on January 1, 2020 and may be adopted earlier. The Company is currently evaluating the impact, if any, that ASU 2016-13 will have on its condensed consolidated financial statements and related disclosures.

In July 2017, the FASB issued ASU 2017-11, Earnings Per Share (Topic 260), Distinguishing Liabilities from Equity (Topic 480) and Derivatives and Hedging (Topic 815): I. Accounting for Certain Financial Instruments with Down Round Features; II. Replacement of the Indefinite Deferral for Mandatorily Redeemable Financial Instruments of Certain Nonpublic Entities and Certain Mandatorily Redeemable Noncontrolling Interests with a Scope Exception. Part I of this update addresses the complexity of accounting for certain financial instruments with down round features. Down round features are features of certain equity-linked instruments (or embedded features) that result in the strike price being reduced on the basis of the pricing of future equity offerings. Current accounting guidance creates cost and complexity for entities that issue financial instruments (such as warrants and convertible instruments) with down round features that require fair value measurement of the entire instrument or conversion option. Part II of this update addresses the difficulty of navigating Topic 480, Distinguishing Liabilities from Equity, because of the existence of extensive pending content in the FASB Accounting Standards Codification. This pending content is the result of the indefinite deferral of accounting requirements about mandatorily redeemable financial instruments of certain nonpublic entities and certain mandatorily redeemable noncontrolling interests. The amendments in Part II of this update do not have an accounting effect. This ASU is effective for fiscal years, and interim periods within those years, beginning after December 15, 2018. The Company is currently assessing the potential impact of adopting ASU 2017-11 on its condensed consolidated financial statements and related disclosures.

## 3. National Holdings Corporation Acquisition - Intangible Assets

Intangible assets consist of trademark and customer lists acquired in the offer under the purchase method of accounting and are recorded at fair value net of accumulated amortization since the purchase date. Amortization is calculated using the straight-line and accelerated methods over the following estimated useful lives:

	Useful life
Trademark	10 years
Customer lists	6 years

The carrying amount related to acquired intangible assets as of March 31, 2018 are as follows (\$\\$ in thousands):

Intangible assets at December 31, 2017	\$ 14,340
Amortization expense	(690)
Intangible assets at March 31, 2018	\$ 13,650

The future amortization of these intangible assets is as follows (\$ in thousands):

	Customer			
	Trademark	List	Total	
Nine Months Ended December 31, 2018	\$ 226	\$ 1,884	\$ 2,110	
Year Ended December 31, 2019	300	2,500	2,800	
Year Ended December 31, 2020	301	2,506	2,807	
Year Ended December 31, 2021	300	2,500	2,800	
Year Ended December 31, 2022	300	1,726	2,026	
Thereafter	1,107	_	1,107	
Total	\$ 2,534	\$ 11,116	\$ 13,650	

Notes to Condensed Consolidated Financial Statements (Unaudited)

The Company reviews its finite-lived intangible assets for impairment when events or changes in circumstances indicate that the carrying amount of a finite-lived intangible asset may not be recoverable. Recoverability of a finite-lived intangible asset is measured by a comparison of its carrying amount to the undiscounted future cash flows expected to be generated by the asset. If the asset is considered to be impaired, the impairment recognized is measured by the amount by which the carrying amount of the asset exceeds the fair value of the asset. There were no indicators of impairment during the three months ended March 31, 2018.

#### 4. Broker-Dealers and Clearing Organizations, Other Receivables and Prepaid Expenses and Other Current Liabilities

At December 31, 2017 and September 30, 2017, National's receivables of \$3.2 million and \$7.4 million, respectively, from broker-dealers and clearing organizations represent net amounts due for commissions and fees associated with National's retail brokerage business as well as asset-based fee revenue associated with National's Investment advisory business. National also has other receivables at December 31, 2017 and September 30, 2017 of \$4.9 million and \$5.2 million, respectively, which principally represent trailing commissions, tax and accounting fees and investment banking fees, net of an allowance for uncollectable accounts of \$0.6 million, and \$0.5 million, respectively, and are included in prepaid expenses and other current assets on the Company's Condensed Consolidated Balance Sheet.

## 5. Forgivable Loans Receivable

From time to time, National's operating subsidiaries may make loans, evidenced by promissory notes, primarily to newly recruited independent financial advisors as an incentive for their affiliation. The notes receivable balance is comprised of unsecured non-interest-bearing and interest-bearing loans (weighted average interest rate of 4%). These notes have various schedules for repayment or forgiveness based on production or retention requirements being met and mature at various dates through 2022. Forgiveness of loans amounted to \$0.2 million and \$0.2 million for the three months ended December 31, 2017 and 2016, respectively, and the related compensation was included in commissions, compensation and fees in the condensed consolidated statements of operations. In the event the advisor's affiliation with the subsidiary terminates, the advisor is required to repay the unamortized balance of any notes payable. Amortization of loan forgiveness was included in commissions, compensation and fees in the statement of operations. In the event the advisor's affiliation with the subsidiary terminates, the advisor is required to repay the unamortized balance of the note.

National provides an allowance for doubtful accounts on the notes based on historical collection experience and continually evaluates the receivables for collectability and possible write-offs where a loss is deemed probable. As of December 31, 2017, no allowance for doubtful accounts was required.

There were no unamortized forgivable loans outstanding at December 31, 2017 attributable to registered representatives who ended their affiliation with National's subsidiaries prior to the fulfillment of their obligation.

## 6. Property and Equipment

Fortress's property and equipment, exclusive of National's property and equipment, consisted of the following (\$\sigma\$ in thousands):

	Estimated Useful Lives (in years)	March 31, 2018	December 31, 2017
Computer equipment	3	\$ 594	\$ 543
Furniture and fixtures	5	1,015	1,009
Machinery and equipment	5	143	143
Leasehold improvements	5 - 15	5,383	5,351
Construction in process (1)	N/A	4,237	1,241
Total property and equipment		11,372	8,287
Less: accumulated depreciation		(1,367)	(1,171)
Property and equipment, net		\$ 10,005	\$ 7,116

## (1) Relates to the Mustang cell processing facility

Fortress's depreciation expense for the three months ended March 31, 2018 and 2017, was approximately \$0.2 million and \$0.2 million, respectively, and was recorded in both research and development expense and general and administrative expense in the Condensed Consolidated Statements of Operations.

Notes to Condensed Consolidated Financial Statements (Unaudited)

National's property and equipment as of December 31, 2017 and September 30, 2017, consisted of the following (\$\\$ in thousands):

	Estimated Useful Lives (in years)	December 31, 2017	September 30, 2017
Equipment	5	\$ 1,339	\$ 1,306
Furniture and fixtures	5	291	284
	Lesser of useful life		
Leasehold improvements	or term	1,011	1,006
Capital Leases (primarily composed of computer equipment)	5	276	276
Fixed assets – gross		2,917	2,872
Accumulated depreciation and amortization		(644)	(475)
Fixed assets – net		\$ 2,273	\$ 2,397

#### 7. Fair Value Measurements

Certain of the Company's financial instruments are not measured at fair value on a recurring bass but are recorded at amounts that approximate their fair value due to their liquid or short-term nature, such as accounts payable, accrued expenses and other current liabilities.

## Origo Acquisition Corporation

A shareholder meeting of "Origo Acquisition Corporation" ("Origo") was held on March 12, 2018, at which the Origo shareholders approved the extension of the date by which to consummate a business combination to June 12, 2018.

As of March 31, 2018, the Company valued its investment in Origo, a publicly traded company, utilizing the following assumptions: probability of a successful business combination of 38.4%, and no dividend rate, which yielded an instrument value upon business combination of \$10.96 per ordinary share for the private placement shares. The rights and warrants were valued utilizing a binomial-lattice model at a value of \$0.44 for each right and \$0.36 for each warrant. Based upon the valuation, the Company recorded a decrease in fair-value of investment of \$0.1 million for the three months ended March 31, 2018. At March 31, 2018, the fair value of the Company's investment in Origo was, \$1.3 million. The Company's working capital note with Origo of \$0.3 million can be converted to stock upon a successful business combination.

Securities Owned

## National

The fair value of National's warrants, representing the cumulative value of warrants received in publicly traded companies', in which NSC as placement agent received warrants as the placement agent. National calculated the fair value of the warrants using a Black Scholes model. A summary of the weighted averages (in aggregate) of significant unobservable inputs (Level 3 inputs) used in measuring National's warrants that are categorized within Level 3 of the fair value hierarchy as of March 31, 2018 is as follows:

	December 31, 2017
Risk-free interest rate	1.53% - 2.2%
Expected dividend yield	$-\frac{0}{0}$
Expected term in years	.43 - 4.35
Remaining volatility	369.19% - 59.69%
Strike price	0.01 - 10.00

(\$ in thousands)	De	r Value of erivative arrants
Beginning balance at September 30, 2017	\$	548
Change in fair value of derivative liabilities		138
Ending balance at December 31, 2017	\$	686

Warrant Liabilities

## Helocyte

The fair value of Helocyte's warrant liability, which was issued in connection with Helocyte's convertible note (see Note 11), was measured using a Monte Carlo simulation valuation methodology. A summary of the weighted average (in aggregate) significant unobservable inputs (Level 3 inputs) used in measuring Helocyte's warrant liabilities that are categorized within Level 3 of the fair value hierarchy as of March 31, 2018 is as follows:

	March 31, 2018
Risk-free interest rate	2.411% - 2.447%
Expected dividend yield	-%
Expected term in years	3.25 - 3.67
Expected volatility	70.0%
Strike price	\$ 0.46
	Fair Value of

(\$in thousands)	War	vative rant pility
Beginning balance at January 1, 2018	\$	87
Change in fair value of derivative liabilities		(9)
Ending balance at March 31, 2018	\$	78

Notes to Condensed Consolidated Financial Statements (Unaudited)

Notes at Fair Value

## Helocyte

Helocyte's convertible note is measured at fair value using the Monte Carlo simulation valuation methodology. A summary of the weighted average (in aggregate) significant unobservable inputs (Level 3 inputs) used in measuring Helocyte's convertible debt that is categorized within Level 3 of the fair value hierarchy as of March 31, 2018 is as follows:

	March 31, 2018
Risk-free interest rate	1.96%- 2.21%
Expected dividend yield	-%
Expected term in years	0.58 - 1.67
Expected volatility	53.1%
(\$in thousands)	Helocyte Convertible Note, at fair value
Beginning balance at January 1, 2018	\$ 4,700
Payment of convertible notes	(1,858)
Change in fair value of convertible notes	(331)
Ending balance at March 31, 2018	\$ 2,511

## Caelum

Caelum's convertible debt is measured at fair value using the Monte Carlo simulation valuation methodology. A summary of the weighted average (in aggregate) significant unobservable inputs (Level 3 inputs) used in measuring Caelum's convertible debt that is categorized within Level 3 of the fair value hierarchy as of March 31, 2018 is as follows:

	March 31, 2018
Risk-free interest rate	1.71%- 2.17%
Expected dividend yield	-%
Expected term in years	0.21 - 1.46
Expected volatility	53.1%

Notes to Condensed Consolidated Financial Statements (Unaudited)

(Sin thousands)	Cor Not	Caelum Convertible Note, at fair value		
Beginning balance at January 1, 2018	\$	10,059		
Change in fair value of convertible notes		81		
Ending balance at March 31, 2018	\$	10,140		

The following tables classify the fair value hierarchy of Fortress's financial instruments, exclusive of National's financial instruments, measured at fair value as of March 31, 2018 and December 31, 2017:

	Fair Value Measurement as of March 31, 2018							
(\$in thousands)	Lev	el 1 Lev	el 2	Level 3	Total			
Assets								
Long-term investments, at fair value	\$	- \$	- \$	1,272 \$	1,272			
Total	\$	- \$	- \$	1,272 \$	1,272			
Liabilities								
Warrant liabilities	\$	- \$	- \$	78 \$	78			
Caelum Convertible Note, at fair value		-	-	10,140	10,140			
Helocyte Convertible Note, at fair value		_	_	2,511	2,511			
Total	\$	- \$	- \$	12,729 \$	12,729			
		Fair Value Measur	rement as of Dec	cember 31, 20	17			
(\$in thousands)	Leve	l 1 Lev	el 2	Level 3	Total			
Assets		, <u> </u>						
Long-term investments, at fair value	\$	- \$	- \$	1,390 \$	1,390			
Total	\$	- \$	- \$	1,390 \$	1,390			
Liabilities								
Warrant liabilities	\$	- \$	- \$	87 \$	87			
Caelum Convertible Note, at fair value		-	_	10,059	10,059			

The following table shows the fair values hierarchy of National's financial instruments measured at fair value on a recurring basis on the Condensed Consolidated Balance Sheets as of December 31, 2017 and September 30, 2017:

4,700

14,846

4,700

14,846

Helocyte Convertible Note, at fair value

Total

	Fair Value Measurement as of December 31, 2017						17	
	Level 1 Level 2		Level 3			Total		
Assets								
National								
Securities owned, at fair value								
Corporate stocks	\$	65	\$	-	\$	-	\$	65
Municipal bonds		3,452		-		-		3,452
Restricted stock		_		75		-		75
Warrants		-		-		686		686
Total	\$	3,517	\$	75	\$	686	\$	4,278
Liabilities								
National								
Securities sold, but not yet purchased at fair value								
Contingent consideration		-		-		717		717
Warrants issued - National		-		-		6,671		6,671
Total	\$		\$		\$	7,388	\$	7,388

Notes to Condensed Consolidated Financial Statements (Unaudited)

	Fair Value Measurement as of September 30, 2017						017		
		Level 1	Level 2			Level 3		Total	
Assets									
National									
Securities owned, at fair value									
Corporate stocks	\$	116	\$	-	\$	-	\$	116	
Municipal bonds		1,239		-		-		1,239	
Restricted stock		-		82		-		82	
Warrants		-		-		548		548	
Total	\$	1,355	\$	82	\$	548	\$	1,985	
Liabilities									
National									
Securities sold, but not yet purchased at fair value									
Municipal bonds		151		-		-		151	
Contingent consideration		-		-		311		311	
Warrants issued - National	_			-		5,597		5,597	
Total	\$	151	\$	_	\$	5,908	\$	6,059	

Warrants issued - National

The fair value of the 5.4 million warrants issued by National (represents 44% of the warrants issued to non-Fortress shareholders) are being classified as a liability in the Condensed Consolidated Statement of Operations at March 31, 2018. Such valuation (using level 3 inputs) was determined by use of the Black-Scholes option pricing model using the following assumptions:

	December 31, 2017
Dividend yield	
Expected volatility	46.13%
Risk-free interest rate	2.20%
Life (in years)	3.69
(C in the course de)	National's
(\$ in thousands)	Warrants
Beginning balance at September 30, 2017	\$ 5,597
Change in fair value of derivative liability	1,074
Ending balance at December 31, 2017	\$ 6,671

National listed the warrants on the Nasdaq Capital Market under the symbol "NHLDW" in February 2017.

The table below provides a roll-forward of the changes in fair value of Level 3 financial instruments for the three months ended March 31, 2018:

(\$ in thousands)	Inv	estment in Origo	C	Helocyte onvertible ote, at fair value	Co	Caelum nvertible te, at fair value	is	Warrants ssued and issuable	Warrant liabilities	Total
Balance at December 31, 2017	\$	1,390	\$	4,700	\$	10,059	\$	5,597	\$ 87	\$ 21,833
Payment of convertible note		-		(1,858)		-		-	-	(1,858)
Change in fair value of investments		(118)		-		-		-	-	(118)
Change in fair value of convertible notes		-		(331)		81		-	-	(250)
Change in fair value of derivative liabilities		-		-		-		1,074	(9)	1,065
Balance at March 31, 2018	\$	1,272	\$	2,511	\$	10,140	\$	6,671	\$ 78	\$ 20,672

For the three months ended March 31, 2018, no transfers occurred between Level 1, Level 2 and Level 3 instruments.

Notes to Condensed Consolidated Financial Statements (Unaudited)

## 8. Licenses Acquired

In accordance with ASC 730-10-25-1, *Research and Development*, costs incurred in obtaining technology licenses are charged to research and development expense if the technology licensed has not reached technological feasibility and has no alternative future use. The licenses purchased by the Company and Mustang, Checkpoint, Helocyte, Caelum and Cyprium require substantial completion of research and development, regulatory and marketing approval efforts in order to reach technological feasibility. As such, for the three months ended March 31, 2018 and 2017, the purchase price of licenses acquired was classified as research and development-licenses acquired in the Condensed Consolidated Statements of Operations, as reflected in the table below:

	For the	e Three Months Ended M	Ended March 31,			
(\$ in thousands)	20	2	2017			
Fortress Companies:						
Checkpoint	\$	- \$	400			
Helocyte		21	_			
Mustang		75	575			
Cellvation		1	_			
Caelum		_	219			
Cyprium		_	100			
Total	\$	97 \$	1,294			

## Checkpoint

The table below provides a summary of Checkpoint's expense related to its licenses, for the three months ended March 31, 2018 and 2017 by license as recorded in the Condensed Consolidated Statements of Operations:

(\$ in thousands)	For the three months ended March 3					
	2018			2017		
Jubliant Biosys License CK-103	\$	_	\$	400		
Total licenses acquired expense	\$	_	\$	400		

In addition, for the three months ended March 31, 2018 and 2017, approximately \$44,000 and \$28,000, respectively, was recognized in revenue from the collaboration agreement with TG Therapeutics, Inc. ("TGTX"), a related party, in the Condensed Consolidated Statements of Operations.

## Mustang

The table below provides a summary of Mustang's expense related to its licenses, for the three months ended March 31, 2018 and 2017 by license as recorded in the Condensed Consolidated Statements of Operations:

(\$ in thousands)	For the three months ended March 31							
	20	18	-	2017				
City of Hope (COH) IL-13 License	\$	_	\$	250				
COH IV/ICV Agreement		_		125				
University of California License for PSCA		_		200				
Manufacturing License		75		_				
Total licenses acquired expense	\$	75	\$	575				

## City of Hope Manufacturing Methods License

In January 2018, Mustang entered into a Non-Exclusive License Agreement (the "Manufacturing License") with COH to acquire intellectual property rights in patent applications, know-how and regulatory filings pertaining to methods of manufacturing T-cells in connection with CAR-T development and isolated populations of therapeutic T-cells bearing specific surface markers. Mustang paid an upfront fee of \$75,000 in connection with the Manufacturing License. COH is eligible to receive an annual maintenance fee of \$15,000, which is creditable against royalties due to COH under the Manufacturing License. Royalty payments in the low single digits are due on net sales of licensed products, with lower royalties due with respect to licensed products that incorporate a chimeric antigen receptor that is separately licensed from COH to Mustang.

Notes to Condensed Consolidated Financial Statements (Unaudited)

## Option on Collaboration Agreement with TGTX

On February 2, 2018 Mustang entered into an Option Agreement the ("TGTX Mustang Option") with TG Therapeutics, Inc. ("TGTX"), a related party, whereby TGTX was granted the option to enter into a global collaboration on the joint development and commercialization of product candidates pertaining to Mustang's CD20 license agreement with the Fred Hutchinson Cancer Research Center. In consideration of the TGTX Mustang Option, TGTX paid an option fee of \$50,000, which was recorded by Mustang as Collaboration Revenue Related Party in the Condensed Consolidated Statement of Operations. The Option expires 180 days after the effective date and can be extended for three months upon mutual written consent. Mr. Weiss, our Executive Vice Chairman, Strategic Development, serves as the Chief Executive Officer of TGTX.

#### Caelum

For the three months ended March 31, 2018 and 2017, respectively, Caelum recorded expense of nil and \$0.2 million in connection with its license for CAEL-101 from Columbia University.

#### Cyprium

For the three months ended March 31, 2018 and 2017, respectively, Cyprium recorded expense of nil and \$0.1 million in connection with its license for CUTX-101 (copper histidinate injection) from the *Eunice Kennedy Shriver* National Institute of Child Health and Human Development ("NICHD").

## 9. Sponsored Research and Clinical Trial Agreements

#### Aevitas

On January 25, 2018, Aevitas entered into a Sponsored Research Agreement with the University of Massachusetts ("UMass SRA") for certain continued research and development activities related to the development of adeno-associated virus ("AAV") gene therapies in complement-mediated diseases. The total amount to be funded by Aevitas under the UMass SRA is \$0.8 million. Pursuant to the terms of the UMass SRA, Aevitas paid \$0.8 million which was due upon execution. For the three months ended March 31, 2018, Aevitas recorded expense of \$0.1 million in connection with the UMass SRA. The expense was recorded in research and development expenses in the Company's Condensed Consolidated Statements of Operations.

## Caelum

On March 12, 2018, Caelum entered into a Sponsored Research Agreement with Columbia University to conduct preclinical research in connection with CAEL 101. The total cost of the study approximates \$0.1 million. For the three months ended March 31, 2018 and 2017, respectively, Caelum recorded expense of approximately \$11,000 and nil, respectively in connection with the agreement. The expense was recorded in research and development expense in the Condensed Consolidated Statements of Operations.

## Cellvation

For the three months ended March 31, 2018 and 2017, respectively, Cellvation recorded expense of \$82,500 and nil, respectively in connection with its sponsored research arrangement with the University of Texas. The expense was recorded in research and development expense in the Condensed Consolidated Statements of Operations.

## Checkpoint

In connection with its license agreement with NeuPharma, Inc. ("NeuPharma"), Checkpoint entered into a Sponsored Research Agreement with NeuPharma for certain research and development activities and subsequently entered into an agreement with TGTX, a related party, to assume all costs associated with this Sponsored Research Agreement, including all amounts previously paid by the Company. For the three months ended March 31, 2018 and 2017, approximately \$31,000 and \$0.2 million, respectively, was recognized in research and development expense in connection with the Sponsored Research Agreement in the Condensed Consolidated Statements of Operations.

In addition, for the three months ended March 31, 2018 and 2017, approximately \$31,000 and \$0.2 million, respectively, was recognized in revenue in connection with the Sponsored Research Agreement in the Condensed Consolidated Statements of Operations.

Notes to Condensed Consolidated Financial Statements (Unaudited)

## Helocyte

The table below provides a summary of Helocyte's expense related to its clinical research arrangements, for the three months ended March 31, 2018 and 2017, by agreement as recorded in the Condensed Consolidated Statements of Operations:

(\$ in thousands)	For the three months ended March 31					
	2013	8		2017		
COH Triplex clinical research and support	\$	_	\$	500		
COH PepVax clinical research and support		_		235		
Total licenses acquired expense	\$	_	\$	735		

During the first quarter of 2018, Helocyte elected to discontinue the further development of its HLA-restricted, single-antigen PepVax program and as such will cease to incur costs associated with this program.

#### Mustang

The table below provides a summary of Mustang's expense related to its sponsored research agreements, for the three months ended March 31, 2018 and 2017, by license as recorded in the Condensed Consolidated Statements of Operations:

(\$ in thousands)	For the three months ended N					
	20	018		2017		
COH CAR T	\$	500	\$	500		
COH - CD123		150		20		
COH - IL13Rα2		360		9		
City of Hope - Manufacturing		114		_		
Fred Hutch - CD20		266				
Total	\$	1,390	\$	529		

## COH Sponsored Research Arrangement Related to Manufacturing Methods

On January 3, 2018, in connection with the Manufacturing License, Mustang entered into a Sponsored Research Agreement (the "Manufacturing SRA") with COH in connection with the optimization and development of CAR T cell manufacturing processes and procedures. Pursuant to the terms of Manufacturing SRA, Mustang paid \$0.9 million to fund the research program thereunder, which has an initial term of two (2) years. For the three months ended March 31, 2018 Mustang recorded approximately \$0.1 million, in research and development expenses in the Company's Condensed Consolidated Statements of Operations. Additionally, Mustang recorded the upfront payment of \$0.9 million as an asset in the Company's Condensed Consolidated Balance Sheets.

## Fred Hutch Sponsored Research Agreement Related to the Manufacturing Process

On March 17, 2018, due to Fred Hutch's operation of a process development research organization whose primary focus is on the development and optimization of processes and systems associated with the manufacture of cellular therapies, Mustang entered into a Sponsored Research Agreement (the "Fred Hutch Manufacturing SRA") with Fred Hutch in order to conduct a research program titled "Optimization of the anti-CD20 CART (Protocol 9738) manufacturing process." Pursuant to the terms of the Fred Hutch Manufacturing SRA, Mustang will fund \$0.6 million for the research program thereunder, which has an initial term of one year. For the three months ended March 31, 2018 Mustang recorded approximately \$12,000, in research and development expenses in the Company's Condensed Consolidated Statements of Operations.

#### Tamid

On November 30, 2017, in connection with its three separate license agreements with UNC, Tamid entered into a Sponsored Research Agreement with UNC ("UNC SRA") for certain continued research and development activities related to Nanodysferlin for treatment of Dysferlinopathy, and AAV-HLA-G for ocular diseases. Total amount to be funded by Tamid under the UNC SRA is \$2.3 million over a term of three years. Pursuant to the terms of the UNC SRA, Tamid paid \$0.8 million which was due upon execution. For the three months ended March 31, 2018, Tamid recorded expense of \$0.2 million in connection with the UNC SRA. The expense was recorded in research and development expenses in the Company's Condensed Consolidated Statements of Operations.

Notes to Condensed Consolidated Financial Statements (Unaudited)

#### 10. Intangibles, net

Journey

Pursuant to the terms of Journey's license agreements for its branded products, Journey made upfront payments totaling \$1.6 million. With the commencement of sales of these products, Journey began amortization of these costs over their respective three year estimated useful life. For the three months ended March 31, 2018 and 2017, Journey recognized expense of approximately \$0.1 million and \$0.1 million, respectively, which was recorded in costs of goods sold in the Company's Condensed Consolidated Statements of Operations.

#### 11. Debt and Interest

#### Debt

2018 Venture Notes

During the period ended March 31, 2018, the Company closed a private placement of promissory notes for an aggregate of \$21.7 million (the "2018 Venture Notes") through National Securities Corporation ("NSC"), a wholly-owned subsidiary of National and a related party by virtue of the Company's ownership of National. The Company intends to use the proceeds from the 2018 Venture Notes to acquire and license medical technologies and products through existing or recently formed Company subsidiaries. The Company may also use the proceeds to finance its subsidiaries. The notes mature 36 months from issuance, provided that during the first 24 months the Company may extend the maturity date by six months. No principal amount will be due for the first 24 months (or the first 30 months if the maturity date is extended). Thereafter, the note will be repaid at the rate of 1/12 of the principal amount per month for a period of 12 months. Interest on the note is 8% payable quarterly during the first 24 months (or the first 30 months if the note is extended) and monthly during the last 12 months.

NSC acted as the sole placement agent for the 2018 Venture Notes. The Company paid NSC a fee of \$1.7 million during the three months ended March 31, 2018 in connection with its placement of the 2018 Venture Notes. At March 31, 2018, the fee, which was recorded as debt discount and will be amortized over the life of the 2018 Venture Notes, was eliminated in consolidation.

The 2018 Venture Notes allows the Company to transfer a portion of the proceeds from the 2018 Venture Notes to a Fortress subsidiary upon the completion by such subsidiary of an initial public offering in which it raises sufficient equity capital so that it has cash equal to five times the amount of the portion of the proceeds of the 2018 Venture Notes so transferred. At the time of transfer the Company's obligation under the NSC Note will be reduced by the amount transferred.

For the period ended March 31, 2018, the Company transferred \$1.4 million to Aevitas, \$1.0 million to Tamid and \$0.4 million to Cellvation.

In connection with this transfer NSC will receive warrants to purchase each such subsidiary's stock equal to 25% of that subsidiary's proceeds of the 2018 Venture Notes divided by the lowest price at which the subsidiary sells its equity in its first third party equity financing. The warrants issued will have a term of 10 years and an exercise price equal to the par value of the Fortress subsidiary's common stock. The value of the warrants, if any, is eliminated in consolidation. As of March 31, 2018, the warrants were contingently issuable as neither an initial public offering nor a third-party financing had occurred.

Opus Credit Facility Agreement Maturity Date Extension

On March 12, 2018, the Company and Opus Point Healthcare Innovation Healthcare Fund ("OPHIF") amended and restated the Opus Credit Facility (the "A&R Opus Credit Facility"). The A&R Opus Credit Facility extends the maturity date of the notes issued under the Opus Credit Facility from September 14, 2018 by one year to September 14, 2019. The A&R Opus Credit Facility also permits the Company to make portions of interest and principal repayments in the form of shares of the Company's common stock and/or in common stock of the Company's publicly-traded subsidiaries, subject to certain conditions. Fortress retains the ability to prepay the Notes at any time without penalty. The notes payable under the A&R Opus Credit Facility continue to bear interest at 12% per annum.

Notes to Condensed Consolidated Financial Statements (Unaudited)

Total debt consists of the following as of March 31, 2018 and December 31, 2017:

	Ma	arch 31,	December 31,			
(\$ in thousands)		2018		2017	Interest rate	Maturity
IDB Note	\$	14,929	\$	14,929	2.25%	August - 2020
2017 Subordinated Note Financing		3,254		3,254	8.00%	March - 2020
2017 Subordinated Note Financing		13,893		13,893	8.00%	May - 2020
2017 Subordinated Note Financing		1,820		1,820	8.00%	June - 2020
2017 Subordinated Note Financing		3,018		3,018	8.00%	August - 2020
2017 Subordinated Note Financing		6,371		6,371	8.00%	September - 2020
2018 Venture Notes		6,517		_	8.00%	February – 2021
2018 Venture Notes		15,190		_	8.00%	March - 2021
Opus Credit Facility		9,500		9,500	12.00%	September – 2019
Helocyte Convertible Note, at fair value		_		1,000	5.00% - 8.00%	December 2017
Helocyte Convertible Note, at fair value		860		2,194	5.00% - 8.00%	March - 2018
Helocyte Convertible Note, at fair value		945		1,062	5.00% - 8.00%	April - 2018
Helocyte Convertible Note, at fair value		372		444	5.00% - 8.00%	May - 2018
Helocyte Convertible Note, at fair value		310		_	5.00% - 8-00%	September 2018
Helocyte Convertible Note, at fair value		23		_	5.00% - 8.00%	November 2018
Caelum Convertible Note, at fair value		1,026		1,017	8.00%	January - 2019
Caelum Convertible Note, at fair value		6,956		6,900	8.00%	February - 2019
Caelum Convertible Note, at fair value		2,158		2,142	8.00%	March - 2019
Total notes payable		87,142		67,544		
Less: Discount on notes payable		1,047		1,035		
Total notes payable	\$	86,095	\$	66,509		

## **Interest Expense**

The following table shows the details of interest expense for all debt arrangements during the periods presented. Interest expense includes contractual interest and amortization of the debt discount and amortization of fees represents fees associated with loan transaction costs, amortized over the life of the loan:

	Three Months End	Three Months Ended March 31,					
(\$in thousands)	2018	2017					
IDB Note							
Interest	\$ 84 \$	82					
Total IDB Note	84	82					
NSC Debt	<del></del>						
Interest	-	71					
Amortization of fees	<u> </u>	38					
Total NSC Debt	<del></del>	109					
2017 Subordinated Note Financing	<u> </u>						
Interest	1,048	-					
Amortization of fees	21	=					
Total 2017 Subordinated Note Financing	1,069	-					
Opus Credit Facility	<u> </u>						
Interest	281	232					
Amortization of fees	319	208					
Total Opus Note	600	440					
2018 Venture Notes	<del></del>						
Interest	56	-					
Amortization of fees	1	-					
Total 2018 Venture Notes	57	-					
LOC Fees	<u> </u>						
Interest	7	8					
Total LOC	7	8					
Helocyte Convertible Note							
Interest	68	54					
Financing fee	<del>_</del>	1					
Total Helocyte Convertible Note	68	55					
Avenue Convertible Note							
Financing fee	<u> </u>	3					
Total Avenue Convertible Note	-	3					
Caelum Convertible Note	-						
Interest	196	-					
Total Caelum Convertible Note	196	-					
Other							

Total Courter	-	3	1
Total Interest Expense and Financing Fee	\$	2,083	\$ 698

Notes to Condensed Consolidated Financial Statements (Unaudited)

## 12. Accrued Expenses and Other Long-Term Liabilities

Accrued expenses and other long-term liabilities, excluding National, consisted of the following:

	M	March 31, 2018		cember 31, 2017
Accrued expenses:				
Professional fees	\$	1,497	\$	1,625
Salaries, bonuses and related benefits		6,002		5,279
Accrued expenses - related party		107		95
Research and development		7,061		4,046
Dr. Falk Pharma milestone (See Note 16)		3,059		3,059
Accrued royalties payable		1,091		1,411
Accrued coupon expense		735		_
Deferred coupon funding		1,516		1,087
Other		646		1,030
Total accrued expenses	\$	21,714	\$	17,632
Other long-term liabilities:				
Deferred rent		4,759		4,739
Total other long-term liabilities	\$	4,759	\$	4,739

National's accounts payable and other accrued expenses as of December 31, 2017 and September 30, 2017, consisted of the following:

	December 31,		Septe	mber 30,
	2	017	2017	
Legal	\$	653	\$	877
Audit		171		176
Telecommunications		208		205
Data Services		454		464
Regulatory		663		540
Settlements		1,789		2,403
Deferred rent		684		497
Other		3,437		3,242
Total	\$	8,059	\$	8,404

Notes to Condensed Consolidated Financial Statements (Unaudited)

## 13. Non-Controlling Interests

Non-controlling interests in consolidated entities, as recorded on the Condensed Consolidated Balance Sheets are as follows:

		As of March 31	, 2018	
			Non-controlling	
	NCI equity share	Net gain/(loss) attributable to non-controlling interests	interests in consolidated entities	Non-controlling ownership
Aevitas	\$ (356)	\$ (47)	\$ (403)	37.0%
Avenue <sup>2</sup>	12,719	(6,691)	6,028	64.4%
Caelum	(2,133)	(707)	(2,840)	33.9%
Cellvation	(387)	(51)	(438)	21.6%
Checkpoint <sup>1</sup>	24,662	(5,175)	19,487	67.4%
Coronado SO	(290)	_	(290)	13.0%
Cyprium	(169)	(31)	(200)	10.8%
Helocyte	(3,124)	(33)	(3,157)	19.8%
JMC	(461)	56	(405)	6.3%
Mustang <sup>2</sup>	36,961	(3,733)	33,228	59.7%
National Holdings	15,805	(734)	15,071	43.4%
Tamid	(132)	(54)	(186)	24.0%
Total	\$ 83,095	\$ (17,200)	\$ 65,895	

		As of December	31, 2017	
			Non-controlling	
	NCI equity share	Net gain/(loss) attributable to non-controlling interests	interests in consolidated entities	Non-controlling ownership
Aevitas	\$ (126)	\$ (168)	\$ (294)	35.4%
Avenue <sup>2</sup>	17,454	(4,646)	12,808	66.1%
Caelum	(815)	(1,262)	(2,077)	34.7%
Cellvation	(259)	(96)	(355)	21.5%
Checkpoint <sup>1</sup>	21,635	(12,314)	9,321	62.0%
Coronado SO	(236)	(54)	(290)	13.0%
Cyprium	(143)	(15)	(158)	11.1%
Helocyte	(1,907)	(1,193)	(3,100)	20.0%
JMC	(469)	7	(462)	6.3%
Mustang <sup>2</sup>	48,740	(11,911)	36,829	61.6%
National Holdings	17,021	(1,216)	15,805	43.4%
Tamid	(6)	(92)	(98)	24.0%
Total	\$ 100,889	\$ (32,960)	\$ 67,929	

- (1) Checkpoint is consolidated with Fortress' operations because Fortress maintains voting control through its ownership of Checkpoint's Class A Common Shares which provide super-majority voting rights.
- (2) Avenue and Mustang are consolidated with Fortress' operations because Fortress maintains voting control through its ownership of Preferred Class A Shares which provide super-majority voting rights.

## 14. Net Loss per Common Share

Basic net loss per share is calculated by dividing net loss by the weighted-average number of shares of common stock outstanding for the period, without consideration for common stock equivalents. Diluted net loss per share is computed by dividing net loss by the weighted-average number of common stock and common stock equivalents outstanding for the period.

The Company's common stock equivalents, including unvested restricted stock, options, and warrants have been excluded from the computation of diluted net loss per share as the effect would be to reduce the net loss per share. Therefore, the weighted average common stock outstanding used to calculate both basic and diluted net loss per share is the same.

Notes to Condensed Consolidated Financial Statements (Unaudited)

The following shares of potentially dilutive securities have been excluded from the computations of diluted weighted average shares outstanding, as the effect of including such securities would be anti-dilutive at the end of the three- months ended March 31, 2018 and 2017:

	Three Months En	ded March 31,
	2018	2017
Warrants to purchase Common Stock	894,189	383,453
Opus warrants to purchase Common Stock	1,880,000	1,860,000
Options to purchase Common Stock	1,085,501	1,105,502
Convertible Preferred Stock	1,000,000	_
Unvested Restricted Stock	11,050,943	9,912,161
Unvested Restricted Stock Units	1,778,154	1,249,232
Total	17,688,788	14,510,348

## 15. Stockholders' Equity

## **Stock-based Compensation**

The following table summarizes the stock-based compensation expense from stock option, employee stock purchase programs and restricted Common Stock awards and warrants for the three months ended March 31, 2018 and 2017:

	For the	Three Mont	hs End	ed March 31,	
(\$ in thousands)	2	2018			
Employee awards	\$	828	\$	367	
Executive awards of Fortress Companies' stock		632		1,463	
Fortress Companies:					
Avenue		349		5	
Checkpoint		1,137		979	
Mustang		1,995		-	
Other		112		115	
Total stock-based compensation	\$	5,053	\$	2,929	

For the three months ended March 31, 2018 and 2017, approximately \$2.3 million and \$0.8 million, respectively, of stock-based compensation expense was included in research and development expenses in connection with equity grants made to employees and consultants and approximately \$2.7 million and \$2.1 million, respectively, was included in general and administrative expenses in connection with grants made to employees, members of the board of directors and consultants.

## **Stock Options**

The following table summarizes Fortress stock option activities excluding activity related to Fortress Companies:

	Number of shares	Weighted average exercise price	Total weighted verage intrinsic value	remaining contractual life (years)
Options vested and expected to vest at December 31,				
2017	1,110,501	\$ 3.78	\$ 1,351,080	3.95
Exercised	-	-	-	-
Options vested and expected to vest at March 31,				
2018	1,110,501	\$ 3.78	\$ 1,701,361	3.71
Options vested and exercisable	1,085,501	\$ 3.75	\$ 1,701,361	3.68

As of March 31, 2018, Fortress had no unrecognized stock-based compensation expense related to options.

Notes to Condensed Consolidated Financial Statements (Unaudited)

#### **Restricted Stock and Restricted Stock Units**

The following table summarizes Fortress restricted stock awards and restricted stock units activities, excluding activities related to Fortress Companies:

	Number of shares	Weighted average grant price
Unvested balance at December 31, 2017	11,874,034	\$ 2.63
Restricted stock granted	1,392,856	3.99
Restricted stock vested	(213,334)	2.76
Restricted stock units granted	230,000	4.98
Restricted stock units forfeited	(42,417)	3.52
Restricted stock units vested	(64,750)	3.49
Unvested balance at March 31, 2018	13,176,389	\$ 2.81

As of March 31, 2018, and 2017, the Company had unrecognized stock-based compensation expense related to restricted stock and restricted stock unit awards of approximately \$8.4 million and \$3.4 million, respectively, which is expected to be recognized over the remaining weighted-average vesting period of 3.1 years and 2.8 years, respectively.

#### Warrants

The following table summarizes Fortress warrant activities, excluding activities related to Fortress Companies:

	Number of shares	Veighted average exercise price	Total weighted verage intrinsic value	Weighted average remaining contractual life (years)		
Outstanding as of December 31, 2017	2,774,189	\$	3.30	\$ 2,204,530	4.47	
Granted	-		-	-	-	
Forfeited	-		-	-	-	
Outstanding as of March 31, 2018	2,774,189	\$	3.30	\$ 3,586,975	4.22	
Exercisable as of March 31, 2018	869,189	\$	3.96	\$ 634,225	3.81	

## **Employee Stock Purchase Plan**

Eligible employees can purchase the Company's Common Stock at the end of a predetermined offering period at 85% of the lower of the fair market value at the beginning or end of the offering period. The ESPP is compensatory and results in stock-based compensation expense.

As of March 31, 2018, 245,652 shares have been purchased and 154,348 shares are available for future sale under the Company's ESPP. Share-based compensation expense recorded was approximately \$38,000 and \$35,000, respectively for the three months ended March 31, 2018 and 2017.

## **Capital Raises**

Fortress

## At the Market Offering

Pursuant to the terms of the Company's Amended and Restated At Market Issuance Sales Agreement, or Sales Agreement, with MLV & Co. LLC, or MLV, and FBR Capital Markets & Co., or FBR (the "ATM"), for the period ended March 31, 2018, the Company issued 64,797 shares of common stock at an average price of \$4.92 per share for gross proceeds of \$0.3 million. In connection with these sales the Company paid a fee of approximately \$5,700 to FBR.

Notes to Condensed Consolidated Financial Statements (Unaudited)

## **Fortress Companies**

Checkpoint Therapeutics, Inc.

## Checkpoint Public Offering of Common Stock

On March 12, 2018, Checkpoint closed on underwritten public offering, whereby it sold 5,290,000 shares of its common stock at a price of \$4.35 per share for gross proceeds of approximately \$23.0 million. Total net proceeds from this offering were approximately \$20.8 million, net of underwriting discounts and estimated offering expenses of approximately \$2.2 million. The shares were sold under a Registration Statement (No. 333-221493) on Form S-3, filed by Checkpoint with the Securities and Exchange Commission.

#### 16. Commitments and Contingencies

#### Indemnification

In accordance with its certificate of incorporation, bylaws and indemnification agreements, the Company has indemnification obligations to its officers and directors for certain events or occurrences, subject to certain limits, while they are serving at the Company's request in such capacity. There have been no claims to date, and the Company has director and officer insurance to address such claims. Pursuant to agreements with clinical trial sites, the Company provides indemnification to such sites in certain conditions.

## **Legal Proceedings - Fortress**

In the ordinary course of business, the Company and its subsidiaries may be subject to both insured and uninsured litigation. Suits and claims may be brought against the Company by customers, suppliers, partners and/or third parties (including tort claims for personal injury arising from clinical trials of the Company's product candidates and property damage) alleging deficiencies in performance, breach of contract, etc., and seeking resulting alleged damages.

Dr. Falk Pharma, GmbH v. Fortress Biotech, Inc. (Frankfurt am Main Regional Court, Ref. No. 3-06 O 28/16). Dr. Falk Pharma, GmbH ("Dr. Falk Pharma") and Fortress are among the parties to that certain Collaboration Agreement dated March 20, 2012, whereby they agreed to collaborate to develop a product for treatment of Crohn's disease. A dispute has arisen between Dr. Falk Pharma and Fortress with respect to their relative rights and obligations under the Collaboration Agreement. Specifically, Dr. Falk Pharma contends that it fulfilled its contractual obligations to Fortress and is entitled to the final milestone payment due under the Collaboration Agreement - EUR 2.5 million. Fortress contends that no such payment is due because a condition of the EUR 2.5 million payment was the delivery of a Clinical Study Report that addressed the primary and secondary objectives of a Phase II trial, and Fortress contends that Dr. Falk Pharma failed to deliver such a Clinical Study Report. Dr. Falk Pharma disputes that it failed to deliver such a report and further disputes that the delivery of such a report is a condition of Fortress's obligation to make the EUR 2.5 million payment. After the parties' attempts to negotiate a settlement of the dispute were unsuccessful, Dr. Falk Pharma filed a lawsuit against Fortress in the above-referenced Court in Frankfurt, Germany to recover the EUR 2.5 million plus interest and attorneys' fees, and Fortress was served with the English translation of the lawsuit on August 11, 2016. Fortress retained local counsel and, on December 14, 2016, filed an answer to the complaint, denying that it had any liability to Dr. Falk Pharma. On July 27, 2017, Fortress received a judgment from the court in Frankfurt awarding the full amount (EUR 2.5 million) plus interest to Dr. Falk Pharma. Fortress appealed the decision to the Higher Regional Court of Frankfurt on August 28, 2017, and the initial response of Dr. Falk Pharma to the appeal was filed on February 16, 2018. Fortress' external counsel in Germany is preparing a reply to that response, and Fortress intends to continue to vigorously defend its position on appeal.

## Litigation and Regulatory Matters - National

National is a defendant or respondent in various pending and threatened arbitrations, administrative proceedings and lawsuits seeking compensatory damages. Several cases have no stated alleged damages. Claim amounts are infrequently indicative of the actual amounts National will be liable for, if any. Further, National has a history of collecting amounts awarded in these types of matters from its brokers that are still affiliated, as well as from those that are no longer affiliated. Many of these claimants also seek, in addition to compensatory damages, punitive or treble damages, and all seek interest, costs and fees. These matters arise in the normal course of business. National intends to vigorously defend itself in these actions, and the ultimate outcome of these matters cannot be determined at this time.

Liabilities for potential losses from complaints, legal actions, government investigations and proceedings are established where the National believes that it is probable that a liability has been incurred and the amount of loss can be reasonably estimated. In making these decisions, management bases its judgments on its knowledge of the situations, consultations with legal counsel and its historical experience in resolving similar matters. In many lawsuits, arbitrations and regulatory proceedings, it is not possible to determine whether a liability has been incurred or to estimate the amount of that liability until the matter is close to resolution. However, accruals are reviewed regularly and are adjusted to reflect the National's estimates of the impact of developments, rulings, advice of counsel and any other information pertinent to a particular matter. Because of the inherent difficulty in predicting the ultimate outcome of legal and regulatory actions, management cannot predict with certainty the eventual loss or range of loss related to such matters. At December 31, 2017 and September 30, 2017, the National accrued approximately \$1.8 million and \$2.4 million, respectively. These amounts are included in accounts payable and accrued expenses in the condensed consolidated statements of financial condition. Amounts charged to operations for settlements and potential losses during the three months ended December 31, 2017 and 2016 were \$0.2 million and \$6,000, respectively, which is included in other administrative expenses. National has included in "Professional fees" litigation and FINRA related expenses of \$0.4 million and \$0.5 million for the three months ended December 31, 2017 and 2016, respectively.

Notes to Condensed Consolidated Financial Statements (Unaudited)

## 17. Related Party Transactions

Other Related Parties

The Company's Chairman, President and Chief Executive Officer, individually and through certain trusts over which he has voting and dispositive control, beneficially owned approximately 13.7% of the Company's issued and outstanding Common Stock as of March 31, 2018. The Company's Executive Vice Chairman, Strategic Development owns approximately 16.0% of the Company's issued and outstanding Common Stock at March 31, 2018.

Shared Services Agreement with TGTX

TGTX and the Company entered into an arrangement to share the cost of certain research and development employees. The Company's Executive Vice Chairman, Strategic Development, is Executive Chairman and Interim Chief Executive Officer of TGTX. Under the terms of the Agreement, TGTX will reimburse the Company for the salary and benefit costs associated with these employees based upon actual hours worked on TGTX related projects. For the three months ended March 31, 2018 and 2017, the Company invoiced TGTX \$0.3 million and \$0.2 million, respectively. At March 31, 2018, the amount receivable from TGTX related to this arrangement approximated \$0.3 million

Desk Space Agreements with TGTX and OPPM

In connection with the Company's Desk Space Agreements with TGTX and Opus Point Partners Management, LLC ("OPPM"), as of March 31, 2018, the Company had paid \$0.6 million in rent under the Desk Space Agreements, and invoiced OPPM and TGTX approximately \$42,000 and \$0.3 million, respectively, for their prorated share of the rent base. In addition, for the three months ended March 31, 2018, the Company had incurred approximately \$32,000 in connection with the build out of the space and recorded a receivable of \$14,000 due from TGTX and \$3,000 due from OPPM. At March 31, 2018, the amount due from TGTX approximated \$137,000 and the amount due from OPPM approximated \$61,000.

Opus Credit Facility

On March 12, 2018, the Company and OPHIF amended and restated the Opus Credit Facility (the "A&R Opus Credit Facility"). The A&R Opus Credit Facility extends the maturity date of the notes issued under the Opus Credit Facility from September 14, 2018 by one year to September 14, 2019. The A&R Opus Credit Facility also permits the Company to make portions of interest and principal repayments in the form of shares of the Company's common stock and/or in common stock of the Company's publicly-traded subsidiaries, subject to certain conditions. Fortress retains the ability to prepay the Notes at any time without penalty. The notes payable under the A&R Opus Credit Facility continue to bear interest at 12% per annum (see Note 11). For the three months ended March 31, 2018 and 2017, we paid \$0.3 million and \$0.2 million, respectively.

Checkpoint Public Offering of Common Stock

NSC, a subsidiary of National (of which the Company owns 56.6% and Michael Weiss serves as Chairman of the Board of Directors), served as the Sole Book Running Manager in connection with Checkpoint's 2018 Equity Offering, which closed on March 12, 2018. As the Sole Book Running Manager, NSC received a fee of approximately \$1.8 million, or 8% on the gross proceeds raised of \$23.0 million. The fees were eliminated in consolidation.

Mustang Option on Collaboration Agreement with TGTX

On February 2, 2018 Mustang entered into an Option Agreement the ("TGTX Mustang Option") with TG Therapeutics, Inc. ("TGTX"), a related party, whereby TGTX was granted the option to enter into a global collaboration on the joint development and commercialization of product candidates pertaining to Mustang's CD20 license agreement with the Fred Hutchinson Cancer Research Center. In consideration of the TGTX Mustang Option, TGTX paid an option fee of \$50,000, which was recorded by Mustang as Collaboration Revenue Related Party in the Condensed Consolidated Statement of Operations. The Option expires 180 days after the effective date and can be extended for three months upon mutual written consent. Mr. Weiss, our Executive Vice Chairman, Strategic Development, serves as the Chief Executive Officer of TGTX.

2018 Venture Notes

For the period ended March 31, 2018, the Company raised approximately \$21.7 million in promissory notes. National Securities Corporation ("NSC"), a wholly owned subsidiary of National, and a related party as a result of the Company's ownership of National, acted as the sole placement agent for the 2018 Venture Notes. The Company paid NSC a fee of \$1.7 million during the three months ended March 31, 2018, in connection with the 2018 Venture Notes. At March 31, 2018, the fee, which was recorded as debt discount on the Company's Condensed Consolidated Balance Sheet and will be amortized over the life of the 2018 Venture Notes, was eliminated in consolidation.

Founders Agreements

The Company has entered into Founders Agreements and, in some cases, Exchange Agreements with certain of its subsidiaries as described

Notes to Condensed Consolidated Financial Statements (Unaudited)

## PIK Dividend as a % of fully diluted

Fortress Company	Effective Date (1)	outstanding capitalization	Class of Stock Issued	
Helocyte	March 20, 2015	2.5%	Common Stock	
Avenue	February 17, 2015	2.5%	Common Stock	
Mustang	March 13, 2015	2.5%	Common Stock	
Checkpoint	March 17, 2015	0.0%(2)	Common Stock	
Cellvation	October 31, 2016	2.5%	Common Stock	
Caelum	January 1, 2017	2.5%	Common Stock	
Cyprium	March 13, 2017	2.5%	Common Stock	
Aevitas	July 28, 2017	2.5%	Common Stock	
Tamid	November 30, 2017 (3)	2.5%	Common Stock	

- (1) Represents the effective date of each subsidiary's Founders Agreement. Each PIK dividend and equity fee is payable on the annual anniversary of the effective date of the original Founders Agreement.
- (2) Instead of a PIK dividend, Checkpoint pays the Company an annual equity fee in shares of Checkpoint's common stock equal to 2.5% of Checkpoint's fully diluted outstanding capitalization.
- (3) Represents the Trigger Date.

Management Services Agreements

The Company has entered in Management Services Agreements (the "MSAs") with certain of its subsidiaries as described in the Company's Form 10-K for the year ended December 31, 2017, filed with the SEC on March 16, 2018. The following table summarizes, by subsidiary, the effective date of the MSA and the annual consulting fee payable by the subsidiary to the Company in quarterly installments:

Fortress Company	Effective Date	Annual MSA Fee (Income)/Expense			
Helocyte	March 20, 2015	\$ 500			
Avenue (1)	February 17, 2015	500			
Mustang	March 13, 2015	500			
Checkpoint	March 17, 2015	500			
Cellvation	October 31, 2016	500			
Caelum	January 1, 2017	500			
Cyprium	March 13, 2017	500			
Aevitas	July 28, 2017	500			
Tamid	November 30, 2017	500			
Fortress		(4,500)			
Consolidated (Income)/Expense		\$ -			

Chord Advisors, LLC

In May 2015, the Company entered into a full-service consulting agreement with Chord Advisors, LLC ("Chord") to provide advisory accounting services. Under the terms of the agreement, the Company pays Chord \$10,000 per month to provide technical accounting and financial reporting support. Either party upon 30-days written notice can terminate the agreement. Mr. Horin, Managing Partner of Chord, serves as Interim Chief Financial Officer to Caelum and Helocyte. Pursuant to the agreements with Caelum and Helocyte, Chord provides back office accounting support and accounting policy and financial reporting services, including the services of Mr. Horin. Chord receives up to \$5,000 per month from Caelum and Helocyte. For the three months ended March 31, 2018 and 2017, Caelum and Helocyte together incurred approximately \$11,000 and \$13,000, respectively, in fees.

Notes to Condensed Consolidated Financial Statements (Unaudited)

National

As of March 31, 2018, the Company owns approximately 56.6% of National. The Company's Executive Vice Chairman, Strategic Development is the Chairman of the Board of National.

Additionally, the Company's Chairman, President and Chief Executive Officer and the Company's Executive Vice Chairman, Strategic Development are both Co-Portfolio Managers and Partners of OPPM which owns approximately 4.6% of National. In the normal course, National provides the Company and the Company's subsidiaries with placement agent services in connection with third party raises. These fees are eliminated in consolidation.

#### 18. Net Capital Requirements of Broker-Dealer Subsidiaries

NSC is subject to the SEC's Uniform Net Capital Rule (Rule 15c3-1) (the "Rule"), which, among other things, requires the maintenance of minimum net capital. At December 31, 2017, National Securities had net capital of \$10.0 million which was \$9.7 million in excess of its required net capital of \$250,000. National Securities is exempt from the provisions of the SEC's Rule 15c3-3 since it is an introducing broker-dealer that clears all transactions on a fully disclosed basis and promptly transmits all customer funds and securities to clearing brokers

Advances, dividend payments and other equity withdrawals from the Company's broker-dealer subsidiaries are restricted by the regulations of the SEC, and other regulatory agencies. These regulatory restrictions may limit the amounts that a subsidiary may dividend or advance to the Company.

## 19. Off Balance Sheet Risk and Concentrations of Credit Risk

National is engaged in trading and providing a broad range of securities brokerage and investment services to a diverse group of retail and institutional clientele, as well as corporate finance and investment banking services to corporations and businesses. Counterparties to National's business activities include broker-dealers and clearing organizations, banks and other financial institutions. National uses clearing brokers to process transactions and maintain customer accounts for National on a fee basis. National permits the clearing firms to extend credit to its clientele secured by cash and securities in the client's account. National's exposure to credit risk associated with the non-performance by its customers and counterparties in fulfilling their contractual obligations can be directly impacted by volatile or illiquid trading markets, which may impair the ability of customers and counterparties to satisfy their obligations to National. National has agreed to indemnify the clearing brokers for losses they incur while extending credit to National's clients. It is National's policy to review, as necessary, the credit standing of its customers and counterparties. Amounts due from customers that are considered uncollectible by the clearing broker are charged back to National by the clearing broker when such amounts become determinable. Upon notification of a charge back, such amounts, in total or in part, are then either (i) collected from the customers, (ii) charged to the broker initiating the transaction and/or (iii) charged to operations, based on the particular facts and circumstances.

National maintains cash in bank deposits, which, at times, may exceed federally insured limits. National has not experienced and does not expect to experience losses on such accounts.

A short sale involves the sale of a security that is not owned in the expectation of purchasing the same security (or a security exchangeable) at a later date at a lower price. A short sale involves the risk of a theoretically unlimited increase in the market price of the security that would result in a theoretically unlimited loss.

## 20. Segment Information

The Company operates in three reportable segments, Dermatology Product Sales, Pharmaceutical and Biotechnology Product Development and National. The accounting policies of the Company's segments are the same as those described in Note 2. The following tables summarize, for the periods indicated, operating results by reportable segment:

Notes to Condensed Consolidated Financial Statements (Unaudited)

Cost of goods sold is directly related to product sales only. Revenues derived from co-promote revenue had no cost of goods sold.

(\$ in thousands) Three Months Ended March 31, 2018	rmatology roducts Sales	Bio	rmaceutical and technology Product evelopment	National	C	Consolidated
Net Revenue	\$ 5,509	\$	394	\$ 49,522	\$	55,425
Direct cost of goods	(1,472)		-	-		(1,472)
Sales and marketing costs	(2,764)		-	-		(2,764)
Research and development	-		(25,055)	-		(25,055)
General and administrative	(397)		(10,387)	-		(10,784)
National Expenses	 -		-	(50,836)		(50,836)
Segment income (loss) from operations	\$ 876	\$	(35,048)	\$ (1,314)	\$	(35,486)
Segment assets	\$ 11,163	\$	189,560	\$ 64,352	\$	265,075

(\$ in thousands) Three Months Ended March 31, 2017	Γ	Dermatology Products Sales	and Biotechnology Product Development	National	Consolidated
Net Revenue	\$	2,085	\$ 693	\$ 41,904	\$ 44,682
Direct cost of goods		(469)	-	-	(469)
Sales and marketing costs		(2,267)	-	-	(2,267)
Research and development		-	(8,404)	-	(8,404)
General and administrative		(319)	(7,666)	-	(7,985)
National Expenses		-	-	(43,134)	(43,134)
Segment loss from operations	\$	(970)	\$ (15,377)	\$ (1,230)	\$ (17,577)
Segment assets	\$	4,039	\$ 159,175	\$ 48,697	\$ 211,911

**Pharmaceutical** 

## 21. Revenues from Contracts and Significant Customers

## Fortress

On January 1, 2018, the Company adopted Topic 606 applying the modified retrospective method to all contracts that were not completed as of January 1, 2018. Results for reporting periods beginning after January 1, 2018 were presented under Topic 606, while prior period amounts were not adjusted and reported under the accounting standards in effect for the prior periods.

## Impact to Journey Medical Product Sales

Topic 606 does not generally change the practice under which the Company recognizes product revenue from sales of Targadox®, Luxamend® and Ceracade®. The Company's performance obligation to deliver products is satisfied at the point in time that the goods are delivered to the customer, which is when the customer obtains title to and has the risks and rewards of ownership of the products.

The Company's contracts include variable consideration in the form of refunds for rights of return, price protection, and consideration payable to the customer. As such, for the three months ended March 31, 2018 and 2017, the Company recorded a return reserve of \$0.7 million and \$0.1 million, respectively. The Company estimates variable consideration using a percentage of sales approach. Under this method, the transaction price is constrained for the potential future returns and consideration payable to the customer because it is not probable that a significant reversal in the amount of cumulative revenue recognized will not occur.

Because the Company's agreements for product and product-related services revenue have an expected duration of one year or less, the Company has elected the practical expedient in ASC 606-10-50-14(a) to not disclose information about its remaining performance obligations.

## Impact to Collaboration and License Agreement Revenues

In March 2015, the Company entered into an exclusive license agreement with Dana-Farber to develop a portfolio of fully human immuno-oncology targeted antibodies. Under the terms of the agreement, Checkpoint paid Dana-Farber an up-front licensing fee of \$1.0 million and, on May 11, 2015, the Company granted Dana-Farber 500,000 shares, valued at \$32,500 or \$0.065 per share. The agreement included an anti-dilution clause that maintained Dana-Farber's ownership at 5% until such time that the Company raised \$10 million in cash in exchange for common shares. Pursuant to this provision, on September 30, 2015, the Company granted to Dana-Farber an additional 136,830 shares of common stock valued at approximately \$0.6 million and the anti-dilution clause thereafter expired. Dana-Farber is eligible to receive payments of up to an aggregate of approximately \$21.5 million for each licensed product upon the Company's successful achievement of certain clinical development, regulatory and first commercial sale milestones. In addition, Dana-Farber is eligible to receive

up to an aggregate of \$60.0 million upon the Company's successful achievement of certain sales milestones based on aggregate net sales, in addition to royalty payments based on a tiered low to mid-single digit percentage of net sales. Following the second anniversary of the effective date of the license agreement, Dana-Farber receives an annual license maintenance fee, which is creditable against milestone payments or royalties due to Dana-Farber. The portfolio of antibodies licensed from Dana-Farber include antibodies targeting PD-L1, GITR and CAIX.

## FORTRESS BIOTECH, INC. AND SUBSIDIARIES

Notes to Condensed Consolidated Financial Statements (Unaudited)

In connection with the license agreement with Dana-Farber, the Company entered into a collaboration agreement with TGTX, a related party, to develop and commercialize the anti-PD-L1 and anti-GITR antibody research programs in the field of hematological malignancies, while the Company retains the right to develop and commercialize these antibodies in the field of solid tumors. Michael Weiss, Chairman of the Board of Directors of Checkpoint and Fortress' Executive Vice Chairman, Strategic Development, is also the Executive Chairman, President and Chief Executive Officer and a stockholder of TGTX. Under the terms of the collaboration agreement, TGTX paid the Company \$0.5 million, representing an upfront licensing fee, and the Company is eligible to receive substantive potential milestone payments up to an aggregate of approximately \$21.5 million for each product upon TGTX's successful achievement of certain clinical development, regulatory and first commercial sale milestones. This is comprised of up to approximately \$7.0 million upon TGTX's successful completion of clinical development milestones, and up to approximately \$14.5 million upon first commercial sales in specified territories. In addition, the Company is eligible to receive up to an aggregate of \$60.0 million upon TGTX's successful achievement of certain sales milestones based on aggregate net sales, in addition to royalty payments based on a tiered high single digit percentage of net sales. Following the second anniversary of the effective date of the agreement, the Company receives an annual license maintenance fee, which is creditable against milestone payments or royalties due to the Company.

The collaboration with TGTX contains a single material performance obligation under Topic 606, which is the granting of a license that is functional intellectual property. The Company's performance obligation is satisfied at the point in time when the customer has the ability to use and benefit from the right to use the intellectual property.

The collaboration agreement includes fixed fees that include the upfront fee of \$0.5 million and annual maintenance fees. The milestone payments are based on successful achievement of preclinical, clinical development, regulatory, and sales milestones. Because these payments are contingent on the occurrence of a future event, they represent variable consideration and are constrained and included in the transaction price only when it is probable that a significant reversal in the amount of cumulative revenue recognized will not occur. The sales based royalty payments are recognized as revenue when the subsequent sales occur. The Company is also receiving variable consideration in the form of patent expense out of pocket cost reimbursements that are constrained and included in the transaction price only when it is probable that a significant reversal in the amount of cumulative revenue recognized will not occur.

# Disaggregation of Total Revenues

The Company has three marketed products, Targadox®, Luxamend® and Ceracade. Substantially all of the Company's product revenues are recorded in the U.S. Substantially all of the Company's collaboration revenues are from its collaboration with TGTX. Revenues by product and collaborator are summarized as follows (in thousands):

	Three months ended March 31, 2018		
Targadox®	\$ 5,498		
Other branded revenue	11		
Total product revenues	\$ 5,509		
TGTX	394		
Total Revenue	\$ 5,903		

## Contract Balances and Performance Obligations

The Company recognized collaboration and license agreement revenues of \$0.4 million during the three months ended March 31, 2018 that were included in the deferred revenue balance as of January 1, 2018.

## FORTRESS BIOTECH, INC. AND SUBSIDIARIES

Notes to Condensed Consolidated Financial Statements (Unaudited)

## Significant Customers

For the three months ended March 31, 2018, three of the Company's Dermatology Products customers each accounted for more than 10.0% of its total gross product revenue in the amount of \$4.4 million and \$3.9 million and \$2.0 million, respectively. For the three months ended March 31, 2017, two of the Company's Dermatology Products customers each accounted for more than 10.0% of its total gross revenue in the amount of \$0.8 million and \$0.5 million, respectively. The revenue from these customers is captured in the product revenue, net line item within the Condensed Consolidated Statement of Operations.

At March 31, 2018, two of the Company's Dermatology Products customers each accounted for more than 10.0% of its total accounts receivable balance in the amount of \$3.0 million and \$2.1 million, respectively.

At March 31, 2017, two of the Company's Dermatology Products customers each accounted for more than 10.0% of its total accounts receivable balance in the amount of \$0.8 million and \$0.5 million, respectively.

Net Revenue from Pharmaceutical and Biotechnology Product Development represents collaboration revenue from TGTX in connection with Checkpoint, which is classified as related party revenue.

National Revenue Recognition with Customers

National recognizes revenue from contracts with customers when, or as, National satisfies its performance obligations by transferring the promised goods or services to the customers. A good or service is transferred to a customer when, or as, the customer obtains control of that good or service. A performance obligation may be satisfied over time or at a point in time. Revenue from a performance obligation satisfied over time is recognized by measuring progress in satisfying the performance obligation in a manner that depicts the transfer of the goods or services to the customer. Revenue from a performance obligation satisfied at a point in time is recognized at the point in time that National determines the customer obtains control over the promised good or service. The amount of revenue recognized reflects the consideration National expects to be entitled to in exchange for those promised goods or services (i.e., the "transaction price"). In determining the transaction price, National considers multiple factors, including the effects of variable consideration. Variable consideration is included in the transaction price only to the extent it is probable that a significant reversal in the amount of cumulative revenue recognized will not occur when the uncertainties with respect to the amount are resolved. In determining when to include variable consideration in the transaction price, we consider the range of possible outcomes, the predictive value of past experiences, the time period of when uncertainties expect to be resolved and the amount of consideration that is susceptible to factors outside of influence, such as market volatility or the judgment and actions of third parties.

The following provides detailed information on the recognition of National's revenues from contracts with customers:

Commissions and Other Fees. National earns commission revenue based on the execution of transactions for clients primarily in equity and equity-related products. Trade execution, when provided together, represent a single performance obligation as the services are not separately identifiable in the context of the contract. Commission revenues are recognized at a point in time on trade-date. Commission revenues are generally paid on settlement date and National records a receivable between trade-date and payment on settlement date.

Investment Banking. National provides clients with a full range of investment banking services. Investment banking services include underwriting and placement agent services in both the equity and debt, including private equity placements, initial public offerings, follow-on offerings and equity-linked convertible securities transactions and private debt. Underwriting and placement agent revenues are recognized at a point in time on trade-date, as the client obtains the control and benefit of the investment banking offering at that point. Costs associated with investment banking transactions are deferred until the related revenue is recognized or the engagement is otherwise concluded and are recorded on a gross basis within Underwriting costs in the Condensed Consolidated Statements of Operations as National is acting as a principal in the arrangement. Any expenses reimbursed by National's clients are recognized as Investment banking revenues.

National's revenues from advisory services primarily consist of fees generated in connection with mergers and acquisition and advisory transactions. Advisory fees from mergers and acquisitions engagements are recognized at a point in time when the related transaction is completed, as the performance obligation is to successfully executes a specific transaction. Fees received prior to the completion of the transaction are deferred within other liabilities on the Condensed Consolidated Balance Sheets. A significant portion of the fees National receives for advisory services are considered variable as they are contingent upon a future event and are excluded from the transaction price until the uncertainty associated with the variable consideration is subsequently resolved, which is expected to occur upon achievement of the specified milestone. Payment for advisory services is generally due promptly upon completion of a specified milestone or, for retainer fees, periodically over the course of the engagement. National recognizes a receivable between the date of completion of the milestone and payment by the customer. Expenses associated with investment banking advisory engagements are deferred only to the extent they are explicitly reimbursable by the client and the related revenue is recognized at a point in time. All other investment banking advisory related costs are expensed as incurred. All investment banking advisory expenses are recognized within their respective expense category on the Condensed Consolidated Statements of Operations and any expenses reimbursed by the clients are recognized as Investment banking revenues.

## FORTRESS BIOTECH, INC. AND SUBSIDIARIES

Notes to Condensed Consolidated Financial Statements (Unaudited)

Asset Management Fees. National receives management and performance fees in connection with investment advisory services provided to various funds and accounts, which are satisfied over time and measured using a time elapsed measure of progress as the customer receives the benefits of the services evenly throughout the term of the contract. Management and performance fees are considered variable as they are subject to fluctuation (e.g., changes in assets under management, market performance) and/ or are contingent on a future event during the measurement period (e.g., meeting a specified benchmark) and are recognized only to the extent it is probable that a significant reversal in the amount of cumulative revenue recognized will not occur when the uncertainty is resolved. Management fees are generally based on month-end assets under management or an agreed upon notional amount and are included in the transaction price at the end of each month when the assets under management or notional amount is known. Performance fees are received when the return on assets under management for a specified performance period exceed certain benchmark returns, "high-water marks" or other performance targets. The performance period related to performance fees is annual, semiannual or at the recognition of a liquidation event. Accordingly, performance fee revenue will generally be recognized only at the end of the performance period to the extent that the benchmark return has been met.

## Disaggregation of Revenue

The following presents National's revenues from contracts with customers disaggregated by major business activity for the three months ended December 31, 2017 (\$ in thousands):

(\$ in thousands)	Mon	For the Three Months Ended December 31, 2017		
Revenues from customer contracts:		_		
Commissions	\$	25,618		
Investment banking:				
Underwriting		2,700		
Private Placement		9,815		
Advisory		1,314		
Other		160		
Sub-total National Revenue from contracts with customers		39,607		
Other National revenue		9,915		
Total National Revenue	\$	49,522		

Information on Remaining Performance Obligations and Revenue Recognized from Past Performance

National does not disclose information about remaining performance obligations pertaining to contracts that have an original expected duration of one year or less. The transaction price allocated to remaining unsatisfied or partially unsatisfied performance obligations with an original expected duration exceeding one year was not material at December 31, 2017. Investment banking advisory fees that are contingent upon completion of a specific milestone are also excluded as the fees are considered variable and not included in the transaction price at December 31, 2017.

During the three months ended December 31, 2017, National deferred \$0.7 million of revenue related to performance obligations that have not been settled, mainly due to resolving uncertainties in variable consideration that was constrained in prior periods. This amount reduced investment banking revenue and was recorded as deferred revenue on the Company's condensed consolidated balance sheet as of March 31, 2018.

## Contract Balances

The timing of National's revenue recognition may differ from the timing of payment by customers. National records a receivable when revenue is recognized prior to payment and we have an unconditional right to payment. Alternatively, when payment precedes the provision of the related services, National records deferred revenue until the performance obligations are satisfied.

# Contract Costs

Incremental contract costs are expensed when incurred when the amortization period of the asset that would have been recognized is one year or less; otherwise, incremental contract costs are recognized as an asset and amortized over time as services are provided to a customer.

## Item 2. Management's Discussion and Analysis of Financial Condition and Results of Operations

## Forward-Looking Statements

You should read the following discussion and analysis of our financial condition and results of operations in conjunction with our consolidated financial statements and the related notes included elsewhere in this Form 10-Q. Our consolidated financial statements have been prepared in accordance with U.S. GAAP. The following discussion and analysis contains forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934 (the "Exchange Act"), including, without limitation, statements regarding our expectations, beliefs, intentions or future strategies that are signified by the words "expect," "anticipate," "intend," "believe," "may," "plan", "seek" or similar language. All forward-looking statements included in this document are based on information available to us on the date hereof, and we assume no obligation to update any such forward-looking statements. Our business and financial performance are subject to substantial risks and uncertainties. Actual results could differ materially from those projected in the forward-looking statements. In evaluating our business, you should carefully consider the information set forth under the heading "Risk Factors" herein and in our Annual Report on Form 10-K for the year ended December 31, 2017.

## Overview

Fortress Biotech, Inc. ("Fortress" or the "Company") is a biopharmaceutical company dedicated to acquiring, developing and commercializing novel pharmaceutical and biotechnology products. Fortress develops and commercializes products both within Fortress and through certain of our subsidiary companies, also referred to herein as the "Fortress Companies." Additionally, the Company maintains a controlling interest in National Holdings Corporation, a diversified independent brokerage company (together with its subsidiaries, herein referred to as "NHLD" or "National"). In addition to its internal development programs, the Company leverages its biopharmaceutical business expertise and drug development capabilities and provides funding and management services to help the Fortress Companies achieve their goals. The Company and the Fortress Companies may seek licensings, acquisitions, partnerships, joint ventures and/or public and private financings to accelerate and provide additional funding to support their research and development programs.

## **Business Strategy**

Our business approach is designed for maximum flexibility, allowing us to invest in a broad array of new technologies with clinical and commercial potential. It enables us to move quickly to take advantage of time-sensitive opportunities when necessary, and provides us with a range of options that allow us to select what we believe is the most advantageous corporate or financial structure for each drug candidate. We seek to acquire and invest in drugs, technologies and operating subsidiaries with high growth potential.

At March 31, 2018, in addition to National, we had several consolidated Fortress Companies, which contain licenses to product candidate intellectual property, including Aevitas Therapeutics, Inc. ("Aevitas"), Avenue Therapeutics, Inc. ("Avenue"), Caelum Biosciences, Inc. ("Caelum"), Cellvation, Inc. ("Cellvation"), Checkpoint Therapeutics, Inc. ("Checkpoint"), Cyprium Therapeutics, Inc. ("Cyprium"), Helocyte, Inc. ("Helocyte"), Journey Medical Corporation ("Journey" or "JMC"), Mustang Bio, Inc. ("Mustang"), and Tamid Bio, Inc. ("Tamid"). We also have operational subsidiaries CB Securities Corporation, Innmune Limited and FBIO Acquisition, Inc. (the acquisition vehicle we used to obtain National) and acquisition companies for which we are actively seeking product candidate licenses, including Coronado SO Co., Escala Therapeutics, Inc., GeneXion Oncology, Inc., Fortress Biotech China, Inc., FBIO Acquisition Corp. IV and FBIO Acquisition Corps. VI - XIV.

## Recent Events

2018 Venture Notes

During the period ended March 31, 2018, the Company closed a private placement of promissory notes for an aggregate of \$21.7 million (the "2018 Venture Notes") through National Securities Corporation ("NSC"), a wholly-owned subsidiary of National and a related party by virtue of the Company's ownership of National. The notes mature 36 months from issuance, provided that during the first 24 months the Company may extend the maturity date by six months. No principal amount will be due for the first 24 months (or the first 30 months if the maturity date is extended). Thereafter, the note will be repaid at the rate of 1/12 of the principal amount per month for a period of 12 months. Interest on the note is 8% payable quarterly during the first 24 months (or the first 30 months if the note is extended) and monthly during the last 12 months.

The Company entered into a Placement Agreement with National Securities Corporation ("NSC"), a subsidiary of National and a related party, (see Note 17). Pursuant to the terms of the Agreement NSC as placement agent for both funds receives an 8% cash fee.

The 2018 Venture Notes allows for transfer of indebtedness to existing and future Fortress Companies. At the time such debt is transferred to the Fortress Company, the respective fund is issued a warrant to purchase a number of shares of common stock of the Fortress Company equal to twenty five percent (25%) of the Fortress Company's share of proceeds divided by the lowest price at which equity securities are sold in the first third party financing of the Fortress Company.

On February 28, 2018, the Company raised gross proceeds of \$21.7 million and paid NSC placement agent fees of \$1.7 million.

Opus Credit Facility Agreement Maturity Date Extension

On March 12, 2018, the Company and OPHIF amended and restated the Opus Credit Facility (the "A&R Opus Credit Facility"). The A&R Opus Credit Facility extends the maturity date of the notes issued under the Opus Credit Facility from September 14, 2018 by one year to September 14, 2019. The A&R Opus Credit Facility also permits the Company to make portions of interest and principal repayments in the form of shares of the Company's common stock and/or in common stock of the Company's publicly-traded subsidiaries, subject to certain conditions. Fortress retains the ability to prepay the Notes at any time without penalty. The notes payable under the A&R Opus Credit Facility continue to bear interest at 12% per annum.

#### Avenue

In March and April 2018, we received notices of allowances for three patent applications covering methods of administration for IV Tramadol. The patents are expected to be issued in the second quarter of 2018.

#### Aevitas

On February 26, 2018, Aevitas entered into a sponsored research agreement ("SRA") with the laboratory of Guangping Gao, Ph.D., at the University of Massachusetts Medical School. The SRA will evaluate construct optimization in the development of gene therapies based on Aevitas' adeno-associated virus ("AAV") technology. Aevitas also formed a scientific advisory board, with Dr. Gao as its first member.

## Checkpoint

On March 12, 2018, Checkpoint closed on underwritten public offering, whereby it sold 5,290,000 shares of its common stock at a price of \$4.35 per share for gross proceeds of approximately \$23.0 million. Total net proceeds from this offering were approximately \$20.8 million, net of underwriting discounts and estimated offering expenses of approximately \$2.2 million. The shares were sold under a Registration Statement (No. 333-221493) on Form S-3, filed by Checkpoint with the Securities and Exchange Commission.

On March 21, 2018, Checkpoint announced the completion of the dose escalation portion of the ongoing Phase 1 clinical trial of CK-301, a fully human antibody, in selected recurrent or metastatic cancers, and the initiation of the first dose expansion cohort, which is evaluating an 800 mg dose of CK-301 administered every two weeks. Initial data from the expansion cohort is expected in the second half of 2018, with the initiation of the first registration trial in first-line non-small cell lung cancer targeted for the first quarter of 2019.

## Helocyte

During the quarter ended March 31, 2018, Helocyte elected to discontinue the further development of its HLA-restricted, single-antigen PepVax program.

## **Reportable Business Segments**

For presentation purposes, Results of Operations is presented on a detailed revenue and expense basis rather than on a reportable business segment basis. Our operations are subject to wide fluctuations due to our early stage of development. The following provides a summary of revenues and expenses for the periods presented.

## **Results of Operations**

## General

For the three months ended March 31, 2018, we generated \$55.4 million of net revenue, of which \$49.5 million of revenue relates to National, \$0.4 million of revenue is in connection with Checkpoint and Mustang's collaborative agreements with TGTX and \$5.5 million of revenue relates primarily to the sale of Journey branded products. At March 31, 2018, we had an accumulated deficit of \$333.1 million. While we may in the future generate revenue from a variety of sources, including license fees, milestone payments, research and development payments in connection with strategic partnerships and/or product sales, our and our subsidiaries' current product candidates are at an early stage of development and may never be successfully developed or commercialized. Accordingly, we expect to continue to incur substantial losses from operations for the foreseeable future, and there can be no assurance that we will ever generate significant revenues.

For the three months ended March 31, 2018 we had \$1.5 million of costs of goods sold in connection with the sale of JMC branded products, compared to \$0.5 million at March 31, 2017.

## Research and Development Expenses

Research and development costs primarily consist of personnel related expenses, including salaries, benefits, travel, and other related expenses, stock-based compensation, payments made to third parties for license and milestone costs related to in-licensed products and technology, payments made to third party contract research organizations for preclinical and clinical studies, investigative sites for clinical trials, consultants, the cost of acquiring and manufacturing clinical trial materials, costs associated with regulatory filings and patents, laboratory costs and other supplies.

Also included in research and development expense is the total purchase price for the licenses acquired during the applicable reporting period.

For the three months ended March 31, 2018 and 2017, research and development expenses were approximately \$25.0 million and \$7.1 million, respectively. Additionally, during the three months ended March 31, 2018 and 2017, we expensed \$0.1 million and \$1.3 million, respectively, in costs related to the acquisition of licenses. Noncash, stock-based compensation expense included in research and development for the three months ended March 31, 2018 and 2017, was \$2.3 million and \$0.8 million, respectively.

Included in the remaining \$22.7 million and \$6.3 million figures for the three months ended March 31, 2018 and 2017, respectively, are the following subsidiary level expenses related to license development: Avenue: \$9.1 million and nil; Checkpoint: \$5.9 million and \$2.6 million; Escala: nil and \$0.1 million; Helocyte: \$0.2 million and \$0.9 million; Caelum: \$1.6 million and nil; Cyprium: \$0.2 million and \$0.1 million; Mustang: \$1.6 million and \$0.5 million, Cellvation: \$0.1 million and nil, Tamid: \$0.2 million and nil, and Aevitas: \$0.1 million and nil. Additionally, \$0.5 million was incurred for product development related to options on potential new products by Fortress in the three months ended March 31, 2018. Also included in research and development expenses for the three months ended March 31, 2018 and 2017, were \$2.0 million and \$1.3 million, respectively, of employee costs, and \$1.2 million and \$0.8 million, respectively, of other costs.

## General and Administrative Expenses

General and administrative expenses consist principally of personnel-related costs, professional fees for legal, consulting, audit and tax services, rent and other general operating expenses not otherwise included in research and development expenses. For the three months ended March 31, 2018 and 2017, general and administrative expenses were approximately \$13.5 million and \$10.3 million, respectively. Noncash, stock-based compensation expense included in general and administrative expenses for the three months March 31, 2018 and 2017, was \$2.8 million and \$2.1 million, respectively, of which \$0.3 million and nil relates to National.

Included in the remaining \$11.1 million and \$8.2 million figures for the three months ended March 31, 2018 and 2017, respectively, are employee related costs as follows: Fortress: \$2.1 million and \$1.4 million, JMC: \$2.6 million and \$2.0 million; Checkpoint: \$0.4 million and \$0.2 million; Mustang: \$0.3 million and nil; Helocyte: \$0.1 million and \$0.1 million; Avenue: \$0.2 million and \$48,000; and Caelum: \$0.2 million and \$0.1 million, respectively. The remaining costs for the three months ended March 31, 2018 and 2017, respectively, are comprised primarily of travel costs, professional fees and services costs as follows: Fortress: \$1.8 million and \$1.9 million; JMC: \$0.6 million and \$0.6 million; Avenue: \$0.6 million and \$0.3 million; Checkpoint: \$0.7 million and \$0.5 million; Helocyte: \$0.1 million and \$0.1 million, Caelum \$0.2 million and \$39,000, and Mustang: \$1.2 million and \$0.7 million, respectively.

General and administrative expenses related to National for the three months ended March 31, 2018 and 2017 were \$50.8 million and \$43.1 million, respectively, of which \$43.6 million and \$37.3 million related to commissions, compensation and fees.

(\$ in thousands)  Revenue  Fortress  Product revenue, net Revenue - from a related party  Net Fortress revenue   National  Commissions Net dealer inventory gains Investment banking Investment advisory Interest and dividends Transfer fees and clearing services Tax preparation and accounting Other  Total National revenue  Net revenue  Operating expenses Fortress Cost of goods sold - product revenue	5,509 394 5,903 25,618 2,190 12,704 5,333 631 2,297 523 226 49,522 55,425	\$ 2,085 693 2,778 24,506 2,511 7,061 3,385 716 2,498 856 371 41,904 44,682	\$ 3,424 (299) 3,125 1,112 (321) 5,643 1,948 (85) (201) (333) (145) 7,618 10,743	5% -13% 80% -58% -12% -8% -39% -39% -24%
Fortress Product revenue, net Revenue - from a related party Net Fortress revenue  National Commissions Net dealer inventory gains Investment banking Investment advisory Interest and dividends Transfer fees and clearing services Tax preparation and accounting Other Total National revenue  Net revenue  Operating expenses Fortress	394 5,903 25,618 2,190 12,704 5,333 631 2,297 523 226 49,522 55,425	24,506 2,511 7,061 3,385 716 2,498 856 371 41,904	(299) 3,125 1,112 (321) 5,643 1,948 (85) (201) (333) (145) 7,618	-43% 112%  5% -13% 80% 58% -12% -8% -39% 18%
Product revenue, net Revenue - from a related party Net Fortress revenue  National Commissions Net dealer inventory gains Investment banking Investment advisory Interest and dividends Transfer fees and clearing services Tax preparation and accounting Other Total National revenue Net revenue  Operating expenses Fortress	394 5,903 25,618 2,190 12,704 5,333 631 2,297 523 226 49,522 55,425	24,506 2,511 7,061 3,385 716 2,498 856 371 41,904	(299) 3,125 1,112 (321) 5,643 1,948 (85) (201) (333) (145) 7,618	-43% 112%  5% -13% 80% 58% -12% -8% -39% 18%
Revenue - from a related party  Net Fortress revenue  National Commissions Net dealer inventory gains Investment banking Investment advisory Interest and dividends Transfer fees and clearing services Tax preparation and accounting Other Total National revenue  Net revenue  Operating expenses Fortress	394 5,903 25,618 2,190 12,704 5,333 631 2,297 523 226 49,522 55,425	24,506 2,511 7,061 3,385 716 2,498 856 371 41,904	(299) 3,125 1,112 (321) 5,643 1,948 (85) (201) (333) (145) 7,618	-43% 112%  5% -13% 80% 58% -12% -8% -39% 18%
Net Fortress revenue  National Commissions Net dealer inventory gains Investment banking Investment advisory Interest and dividends Transfer fees and clearing services Tax preparation and accounting Other Total National revenue Net revenue  Operating expenses Fortress	5,903  25,618 2,190 12,704 5,333 631 2,297 523 226 49,522 55,425	2,778  24,506 2,511 7,061 3,385 716 2,498 856 371 41,904	3,125  1,112 (321) 5,643 1,948 (85) (201) (333) (145) 7,618	5% -13% 80% 58% -12% -8% -39% 18%
National Commissions Net dealer inventory gains Investment banking Investment advisory Interest and dividends Transfer fees and clearing services Tax preparation and accounting Other Total National revenue Net revenue  Operating expenses Fortress	25,618 2,190 12,704 5,333 631 2,297 523 226 49,522 55,425	24,506 2,511 7,061 3,385 716 2,498 856 371 41,904	1,112 (321) 5,643 1,948 (85) (201) (333) (145) 7,618	5% -13% 80% 58% -12% -8% -39% -39%
Commissions Net dealer inventory gains Investment banking Investment advisory Interest and dividends Transfer fees and clearing services Tax preparation and accounting Other Total National revenue Net revenue  Operating expenses Fortress	2,190 12,704 5,333 631 2,297 523 226 49,522 55,425	2,511 7,061 3,385 716 2,498 856 371 41,904	(321) 5,643 1,948 (85) (201) (333) (145) 7,618	-13% 80% 58% -12% -8% -39% -39% 18%
Net dealer inventory gains Investment banking Investment advisory Interest and dividends Transfer fees and clearing services Tax preparation and accounting Other Total National revenue Net revenue  Operating expenses Fortress	2,190 12,704 5,333 631 2,297 523 226 49,522 55,425	2,511 7,061 3,385 716 2,498 856 371 41,904	(321) 5,643 1,948 (85) (201) (333) (145) 7,618	-13% 80% 58% -12% -8% -39% -39% 18%
Investment banking Investment advisory Interest and dividends Transfer fees and clearing services Tax preparation and accounting Other Total National revenue Net revenue  Operating expenses Fortress	12,704 5,333 631 2,297 523 226 49,522 55,425	7,061 3,385 716 2,498 856 371 41,904	5,643 1,948 (85) (201) (333) (145) 7,618	80% 58% -12% -8% -39% -39% 18%
Investment advisory Interest and dividends Transfer fees and clearing services Tax preparation and accounting Other Total National revenue Net revenue  Operating expenses Fortress	5,333 631 2,297 523 226 49,522 55,425	3,385 716 2,498 856 371 41,904	1,948 (85) (201) (333) (145) 7,618	58% -12% -8% -39% -39% 18%
Interest and dividends Transfer fees and clearing services Tax preparation and accounting Other Total National revenue Net revenue  Operating expenses Fortress	631 2,297 523 226 49,522 55,425	716 2,498 856 371 41,904	(85) (201) (333) (145) 7,618	-12% -8% -39% -39% 18%
Transfer fees and clearing services Tax preparation and accounting Other Total National revenue Net revenue  Operating expenses Fortress	2,297 523 226 49,522 55,425	2,498 856 371 41,904	(201) (333) (145) 7,618	-8% -39% -39% 18%
Tax preparation and accounting Other Total National revenue Net revenue  Operating expenses Fortress	523 226 49,522 55,425	856 371 41,904	(333) (145) 7,618	-39% -39% 18%
Other Total National revenue Net revenue  Operating expenses Fortress	226 49,522 55,425 1,472 24,958	371 41,904	(145) 7,618	-39% 18%
Total National revenue  Net revenue  Operating expenses Fortress	49,522 55,425 1,472 24,958	41,904	7,618	18%
Operating expenses Fortress	1,472 24,958			
Operating expenses Fortress	1,472 24,958	44,682	10,743	24%
Fortress	24,958			
	24,958			
Cost of goods sold - product revenue	24,958			
	<i>j</i>	469	1,003	214%
Research and development		7,110	17,848	251%
Research and development – licenses acquired	97	1,294	(1,197)	-93%
General and administrative	13,548	10,252	3,296	32%
Total Fortress operating expenses	40,075	19,125	20,950	110%
National				
Commissions, compensation and fees	43,561	37,258	6,303	17%
Clearing fees	743	738	5	1%
Communications	760	722	38	5%
Occupancy	955	1,008	(53)	-5%
Licenses and registration	637	405	232	57%
Professional fees	1,393	1,263	130	10%
Interest	2	4	(2)	-50%
Underwriting costs	145	-	145	100%
Depreciation and amortization	859	506	353	70%
Other administrative expenses	1,781	1,230	551	45%
Total National operating expenses  Total operating expenses	50,836	43,134	7,702	18%
Total operating expenses	90,911	62,259	28,652	46%
Loss from operations	(35,486)	(17,577)	(17,909)	102%
Other income (expenses)				
Interest income	284	136	148	109%
Interest expenses	(2,083)	(698)		198%
Change in fair value of derivative liabilities	(1,065)	4,342	(5,407)	-125%
Change in fair value of subsidiary convertible note	250	(97)		-358%
Change in fair value of investments	(118)	(668)		-82%
Total other income (expenses)	(2,732)	3,015	(5,747)	-191%
Net loss	(38,218)	(14,562)	(23,656)	162%
Less: net loss attributable to non-controlling interest	(17,200)	(2,580)	(14,620)	567%
Net loss attributable to common stockholders \$	(21,018)			75%

Net revenues increased \$10.7 million or 24% from the three months ended March 31, 2017 to the three months ended March 31, 2018. The increase in net revenue is related to an increase in product revenue of \$3.4 million associated with Journey's branded products, offset by a decrease of \$0.3 million in collaboration revenue between Checkpoint and TGTX. National's revenue increased by \$7.6 million of which \$1.1 million is commissions, the increase is due to retail commissions increasing due to favorable markets. Investment banking revenue increased \$6.2 million due to increased product offerings and issuers producing a strong pipeline, yielding strong investment opportunities for clients.

Cost of goods sold increased by \$1.0 million or 214% from the three months ended March 31, 2017 to the three months ended March 31, 2018 due to the increase in Journey branded product revenue in the first quarter of 2018 as compared to the first quarter of 2017.

Research and development expenses increased \$17.8 million or 251% from the three months ended March 31, 2018. This increase is attributable to increases in spending of: \$9.1 million for Avenue related to the advancement of bunionectomy and safety study costs for IV tramadol, \$2.1 million for Mustang (inclusive of \$0.6 of employee cost increases) due to increased sponsored research expense related to IL-13, CD123 and CD20, and \$3.4 million for Checkpoint related to increased pre-clinical and product development activity for their product candidates, \$1.6 million for Caelum related to preclinical and CMC-related work, \$0.2 million for Cyprium for sponsored research, \$0.1 million for Aevitas pre-clinical activity, and \$0.2 million for Tamid pre-clinical activity. Personnel costs related to Fortress increased by 0.2 million during the three months ended March 31, 2018 as compared to the three months ended March 31, 2017, as a result of an increase in employee headcount while non-cash stock compensation expenses increased by \$1.5 million, primarily due to additional awards granted to new employees of both Mustang, Checkpoint and Avenue.

During the three months ended March 31, 2018, we made expenditures totaling \$0.1 million in connection with a new research and development license for Mustang, compared with \$1.3 million in expenditures related to licenses acquired during the three months ended March 31, 2017, comprised of new license purchases by Mustang (\$0.6 million), Caelum (\$0.2 million), and Cyprium (\$0.1 million) as well as a milestone payment owed under an existing license agreement paid by Checkpoint (\$0.4 million), during the three months ended March 31, 2017.

General and administrative expenses increased \$3.3 million or 32% from the three months ended March 31, 2017 to the three months ended March 31, 2018. The increase is related to \$0.6 million for the continued building of our sales and marketing infrastructure at JMC (including increasing the headcount of its out-sourced sales force from 25 to 31), \$1.3 million for the increase in headcount excluding JMC (of which \$0.8 million relates to Fortress, \$0.1 million to Avenue and \$0.3 million to Mustang). Finally, stock compensation expense increased by \$0.3 million from the three months ended March 31, 2017 due to new stock grants by Mustang and Avenue.

National's operating expenses increased by \$7.7 million or 18% for the three months ended December 31, 2017 as compared to the three months ended December 31, 2016. Commission compensation and fees increased \$6.3 million or 17%; this increase is attributable to the increase in investment banking revenue for the quarter. Licenses and registration expenses increased \$0.2 million or 57% due to licenses for software applications as National continues to invest in and implement technology enhancements. Professional fees increased \$0.1 million or 10% due to technology implementation. Other administrative expenses increased \$0.6 million or 45% due to higher provisions for potential arbitration settlements, technology spending and higher insurance costs.

Interest expense increased \$1.4 million, or 198% from the three months ended March 31, 2017 to the three months ended March 31, 2018. The increase in interest is primarily related to amounts owed under the 2017 Subordinated Note Financing, the Caelum Convertible Notes, and the 2018 Venture Notes.

# **Liquidity and Capital Resources**

We may require additional financing to fully develop and prepare regulatory filings, obtain regulatory approvals for our existing and new product candidates, fund operating losses, and, if deemed appropriate, establish or secure through third parties manufacturing for our potential products, sales and marketing capabilities. We have funded our operations to date primarily through the sale of equity and debt securities. We believe that our current cash and cash equivalents, is sufficient to fund operations for at least the next twelve months. A failure to raise capital as and when needed would have a material adverse impact on our financial condition and our ability to pursue our business strategies. We may seek funds through equity or debt financings, collaborative or other arrangements with corporate sources, or through other sources of financing.

		Three Months Ended March 31,			
(\$ in thousands)		2018		2017	
Statement of cash flows data:					
Total cash (used in)/provided by:					
Operating activities	\$	(27,575)	\$	(11,475)	
Investing activities		(1,975)		(942)	
Financing activities		39,655		58,160	
Net increase in Cash and cash equivalents, cash deposits with clearing organizations and		,			
restricted cash	\$	10,105	\$	45,743	

## **Operating Activities**

Net cash used in operating activities increased \$16.1 million from the three months ended March 31, 2017, compared to the three months ended March 31, 2018. The increase was primarily due to the decrease of \$5.4 million in the fair value of derivative liabilities, an increase of \$23.7 million in net loss, a decrease in the fair value of investments of \$0.5 million, and an increase of \$1.1 million in changes in operating assets and liabilities partially offset by a decrease of \$0.3 million of depreciation and amortization expense related to intangible assets associated with our ownership in National, a \$1.2 million decrease of expense related to research and development-licenses acquired, an increase of \$2.1 million in stock based compensation expense, and a decrease of \$0.3 million related to the value of subsidiary convertible notes.

## **Investing Activities**

Net cash used in investing activities increased \$1.0 million from the three months ended March 31, 2017, compared to the three months ended March 31, 2018 The increase is primarily due to a \$25.0 million increase in the purchase of short-term investments with the purchase of certificates of deposit by Mustang, offset by the \$24.0 million redemption of certificates of deposit, also held by Mustang, an increase of \$0.5 million in the purchase of property and equipment as the build-out of the cell processing facility in Worcester, Massachusetts by Mustang continues, as well as a decrease of \$0.6 million in funds used to purchase research and development licenses.

## **Financing Activities**

Net cash provided by financing activities was \$58.2 million for the three months ended March 31, 2017, compared to \$39.7 million of net cash provided by financing activities for the three months ended March 31, 2018. During the three months ended March 31, 2018, net proceeds from subsidiaries' offerings were \$20.8 million, net proceeds from the 2018 Venture Notes were \$19.9 million, and \$1.9 million was used to pay subsidiaries' Convertible Notes. Additionally, \$1.3 million of costs were incurred in connection with the issuance of Series A preferred stock, and \$0.6 million was paid in Preferred A dividends, offset slightly by \$0.2 million in proceeds from at-the-market offering.

# **Contractual Obligations and Commitments**

There have been no material changes to our contractual obligations and commitments outside the ordinary course of business from those disclosed under the heading "Management's Discussion and Analysis of Financial Condition and Results of Operations-Contractual Obligations and Commitments" in our Annual Report on Form 10-K for the year ended December 31, 2017 except for the addition of the 2018 Venture Notes. Total owed under the 2018 Venture Notes at March 31, 2018 is \$21.7 million. The notes mature 36 months from issuance, provided that during the first 24 months the Company may extend the maturity date by six months. No principal amount will be due for the first 24 months (or the first 30 months if the maturity date is extended). Interest accrues at 8% payable quarterly for the first 24 months (or the first 30 months if the note is extended), and monthly during the last 12 months.

## **Off-Balance Sheet Arrangements**

We are not party to any off-balance sheet transactions. We have no guarantees or obligations other than those which arise out of normal business operations.

# Item 3. Quantitative and Qualitative Disclosures About Market Risks

Market risk represents the risk of loss that may result from the change in value of financial instruments due to fluctuations in their market price. Market risk is inherent in all financial instruments. Market risk may be exacerbated in times of trading illiquidity when market participants refrain from transacting in normal quantities and/or at normal bid-offer spreads. Our exposure to market risk is directly related to derivatives, debt and equity linked instruments related to our financing activities.

Our assets and liabilities are denominated in U.S. dollars. Consequently, we have not considered it necessary to use foreign currency contracts or other derivative instruments to manage changes in currency rates. We do not now, nor do we plan to, use derivative financial instruments for speculative or trading purposes. However, these circumstances might change.

The primary quantifiable market risk associated with our financial instruments is sensitivity to changes in interest rates. Interest rate risk represents the potential loss from adverse changes in market interest rates. We use an interest rate sensitivity simulation to assess our interest rate risk exposure. For purposes of presenting the possible earnings effect of a hypothetical, adverse change in interest rates over the 12-month period from our reporting date, we assume that all interest rate sensitive financial instruments will be impacted by a hypothetical, immediate 100 basis point increase in interest rates as of the beginning of the period. The sensitivity is based upon the hypothetical assumption that all relevant types of interest rates that affect our results would increase instantaneously, simultaneously and to the same degree. We do not believe that our cash and equivalents have significant risk of default or illiquidity.

The sensitivity analyses of the interest rate sensitive financial instruments are hypothetical and should be used with caution. Changes in fair value based on a 1% or 2% variation in an estimate generally cannot be extrapolated because the relationship of the change in the estimate to the change in fair value may not be linear. Also, the effect of a variation in a particular estimate on the fair value of financial instruments is calculated independent of changes in any other estimate; in practice, changes in one factor may result in changes in another factor, which might magnify or counteract the sensitivities. In addition, the sensitivity analyses do not consider any action that we may take to mitigate the impact of any adverse changes in the key estimates.

Based on our analysis, for the years ended December 31, 2016, December 31, 2017 and for the interim period through March 31, 2018, we determined the effect of a 100+/- basis point change in interest rates on the value of our financial instruments and the resultant effect on our net loss to be immaterial.

#### Item 4. Controls and Procedures

## Evaluation of Disclosure Controls and Procedures

Under the supervision and with the participation of our management, including our principal executive officer and principal financial officer, we conducted an evaluation of the effectiveness, as of March 31, 2018, of the design and operation of our disclosure controls and procedures, as such term is defined in Exchange Act Rules 13a-15(e) and 15d-15(e). Based on this evaluation, our principal executive officer and principal financial officer have concluded that, as of such date, our disclosure controls and procedures are effective to ensure that information required to be disclosed by us in our Exchange Act reports is recorded, processed, summarized, and reported within the time periods specified in the SEC's rules and forms, and that such information is accumulated and communicated to our management, including our principal executive officer and principal financial officer, as appropriate to allow timely decisions regarding required disclosure.

# Changes in Internal Control over Financial Reporting

No change in internal control over financial reporting occurred during the most recent quarter with respect to our operations, which materially affected, or is reasonable likely to materially affect, our internal controls over financial reporting.

## PART II. OTHER INFORMATION

# Item 1. Legal Proceedings

Dr. Falk Pharma, GmbH v. Fortress Biotech, Inc. (Frankfurt am Main Regional Court, Ref. No. 3-06 O 28/16). Dr. Falk Pharma, GmbH ("Dr. Falk Pharma") and Fortress are among the parties to that certain Collaboration Agreement dated March 20, 2012, whereby they agreed to collaborate to develop a product for treatment of Crohn's disease. A dispute has arisen between Dr. Falk Pharma and Fortress with respect to their relative rights and obligations under the Collaboration Agreement. Specifically, Dr. Falk Pharma contends that it fulfilled its contractual obligations to Fortress and is entitled to the final milestone payment due under the Collaboration Agreement - EUR 2.5 million. Fortress contends that no such payment is due because a condition of the EUR 2.5 million payment was the delivery of a Clinical Study Report that addressed the primary and secondary objectives of a Phase II trial, and Fortress contends that Dr. Falk Pharma failed to deliver such a Clinical Study Report. Dr. Falk Pharma disputes that it failed to deliver such a report and further disputes that the delivery of such a report is a condition of Fortress's obligation to make the EUR 2.5 million payment. After the parties' attempts to negotiate a settlement of the dispute were unsuccessful, Dr. Falk Pharma filed a lawsuit against Fortress in the above-referenced Court in Frankfurt, Germany to recover the EUR 2.5 million plus interest and attorneys' fees, and Fortress was served with the English translation of the lawsuit on August 11, 2016. Fortress retained local counsel and, on December 14, 2016, filed an answer to the complaint, denying that it had any liability to Dr. Falk Pharma. On July 27, 2017, Fortress received a judgment from the court in Frankfurt awarding the full amount (EUR 2.5 million) plus interest to Dr. Falk Pharma. Fortress appealed the decision to the Higher Regional Court of Frankfurt on August 28, 2017, and the initial response of Dr. Falk Pharma to the appeal was filed on February 16, 2018. Fortress' external counsel in Germany is preparing a reply to that response, and Fortress intends to continue to vigorously defend its position on appeal.

#### Item 1A. Risk Factors

Investing in our Common Stock or any other of our equity securities involves a high degree of risk. You should consider carefully the risks and uncertainties described below, together with all of the other information in this Annual Report on Form 10-K including the consolidated financial statements and the related notes, as well as the risks, uncertainties and other information set forth in the reports and other materials filed or furnished by our majority-controlled subsidiaries National, Checkpoint, Mustang, and Avenue with the SEC, before deciding to invest in shares of our Common Stock or any other of our equity securities. If any of the following risks or the risks included in the public filings of National, Checkpoint, Mustang or Avenue were to materialize, our business, financial condition, results of operations, and future growth prospects could be materially and adversely affected. In that event, the market price of our Common Stock or that of any other of our equity securities could decline, and you could lose part of or all of your investment in our Common Stock or in our any other of our equity securities.

# Risks Related to our Growth Strategy

If we acquire, enter into joint ventures with or obtain a controlling interest in companies in the future, it could adversely affect our operating results and the value of our Common Stock thereby diluting stockholder value and disrupting our business.

As part of our growth strategy, we might acquire, enter into joint ventures with, or obtain a significant ownership stake in other companies. Acquisitions of, joint ventures with and investments in other companies involve numerous risks, including, but not necessarily limited to:

- risk of entering new markets in which we have little to no experience;
- · diversion of financial and managerial resources from existing operations;
- successfully negotiating a proposed acquisition or investment timely and at a price or on terms and conditions favorable to us;
- the impact of regulatory reviews on a proposed acquisition or investment;
- the outcome of any legal proceedings that may be instituted with respect to the proposed acquisitions or investment;
- with respect to an acquisition, difficulties in integrating operations, technologies, services and personnel; and
- · potential inability to maintain relationships with customers of the companies we may acquire or invest in.

If we fail to properly evaluate potential acquisitions, joint ventures or investments, we might not achieve the anticipated benefits of any such transaction, we might incur costs in excess of what we anticipate, and management resources and attention might be diverted from other necessary or valuable activities.

If certain of our subsidiaries cannot innovate and develop products and services and/or continue to commercialize biopharmaceutical products or grow our and their respective businesses, we may not be able to generate revenue.

Our growth strategy also depends on our and our subsidiaries' ability to generate revenue. If we and our subsidiaries cannot innovate and develop products and services or continue to commercialize current and future biopharmaceutical products or grow their respective businesses, we may not be able to generate revenue growth as anticipated.

We may not be able to generate returns for our investors if certain of our subsidiaries, most of which have limited or no operating history, no commercialized revenue generating products, and are not yet profitable, cannot obtain additional third-party financing.

As part of our growth strategy, we have made and will likely continue to make substantial investments in our subsidiaries, which at the time of investment generally have limited or no operating history, no commercialized revenue generating products, and require additional third-party financing to fund product and services development or acquisitions. Our business depends in large part on one or more of our subsidiaries' ability to innovate, in-license, acquire or invest in successful biopharmaceutical products, develop financial services and/or acquire companies in increasingly competitive and highly regulated markets. If certain of our subsidiaries do not successfully obtain additional third-party financing to commercialize products, successfully acquire companies or participate in the financial services industry, as applicable, the value of our businesses and our ownership stakes in our subsidiaries may be materially adversely affected.

If we cannot continue to fund our and certain of our subsidiaries' research and development programs, we and our subsidiaries may be required to reduce product development, which will adversely impact our growth strategy.

Our and certain of our subsidiaries' research and development ("R&D") programs will require substantial additional capital to conduct research, preclinical testing and human studies, establish pilot scale and commercial scale manufacturing processes and facilities, and establish and develop quality control, regulatory, marketing, sales and administrative capabilities to support these programs. We expect to fund our and certain of our subsidiaries' R&D activities from a combination of cash generated from royalties and milestones from our partners in various past, ongoing and future collaborations and additional equity or debt financings from third parties. These financings could depress our stock price. If additional funds are required to support our or our subsidiaries' operations and such funds cannot be obtained on favorable terms, we and certain of our subsidiaries may not be able to develop products, which will adversely impact our growth strategy.

Collaborative relationships with third parties could cause us or certain of our subsidiaries to expend significant resources and incur substantial business risk with no assurance of financial return.

We anticipate substantial reliance upon strategic collaborations for marketing and commercializing our and certain of our subsidiaries' existing product candidates, and we and our subsidiaries may rely even more on strategic collaborations for R&D of other product candidates. We and certain of our subsidiaries may sell product offerings through strategic partnerships with pharmaceutical and biotechnology companies. If we or our subsidiaries are unable to establish or manage such strategic collaborations on terms favorable to us in the future, our revenue and drug development may be limited.

If we or certain of our subsidiaries enter into R&D collaborations during the early phases of drug development, success will in part depend on the performance of research collaborators. Neither we nor certain of our subsidiaries will directly control the amount or timing of resources devoted by research collaborators to activities related to product candidates. Research collaborators may not commit sufficient resources to our or our subsidiaries' R&D programs. If any research collaborator fails to commit sufficient resources, the preclinical or clinical development programs related to the collaboration could be delayed or terminated. Also, collaborators may pursue existing or other development-stage products or alternative technologies in preference to those being developed in collaboration with us or our subsidiaries. Finally, if we or certain of our subsidiaries fail to make required milestone or royalty payments to collaborators or to observe other obligations in agreements with them, the collaborators may have the right to terminate or stop performance of those agreements.

Establishing strategic collaborations is difficult and time-consuming. Our and certain of our subsidiaries' discussions with potential collaborators may not lead to the establishment of collaborations on favorable terms, if at all. Potential collaborators may reject collaborations based upon their assessment of our and our subsidiaries' financial, regulatory or intellectual property position. In addition, there has been a significant number of recent business combinations among large pharmaceutical companies that have resulted in a reduced number of potential future collaborators. Even if we or our subsidiaries successfully establish new collaborations, these relationships may never result in the successful development or commercialization of product candidates or the generation of sales revenue. To the extent that we or our subsidiaries enter into collaborative arrangements, the related product revenues are likely to be lower than if we or our subsidiaries directly marketed and sold products. Such collaborators may also consider alternative product candidates or technologies for similar indications that may be available to collaborate on and whether such a collaboration could be more attractive than the one with us or our subsidiaries for any future product candidate.

Management of our relationships with collaborators will require:

- significant time and effort from our management team, as well as from the management teams of our subsidiaries;
- coordination of our and certain of our subsidiaries' marketing and R&D programs with the respective marketing and R&D priorities of our collaborators; and
- · effective allocation of our and our subsidiaries' resources to multiple projects.

As we continue to execute our growth strategy, we may be subject to further government regulation which would adversely affect our operations.

If we engage in business combinations and other transactions that result in holding passive investment interests in a number of entities, we may become subject to regulation under the Investment Company Act of 1940, as amended (the "Investment Company Act"). If we do become subject to the Investment Company Act, we would be required to register as an investment company and could be expected to incur significant registration and compliance costs in the future.

We may not be able to manage our anticipated growth, which may in turn adversely impact our business.

We will need to continue to expend funds on improving our infrastructure to address our anticipated growth. Acquisitions of companies or products could place a strain on our management, and administrative, operational and financial systems. In addition, we may need to hire, train and manage more employees, focusing on their integration with us and corporate culture. Integration and management issues associated with increased acquisitions may require a disproportionate amount of our management's time and attention and distract our management from other activities related to running our business.

We may not be able to hire or retain key officers or employees for our Company, and in some cases, our subsidiaries, to implement our business strategy and develop products and businesses.

Our success depends on the continued contributions of our executive officers, financial, scientific and technical personnel and consultants, and on our ability to attract additional personnel for us and, in some cases, our subsidiaries as we continue to implement our growth strategy and acquire and invest in companies with varied businesses. During our and our subsidiaries' operating history, many essential responsibilities have been assigned to a relatively small number of individuals. However, as we continue to implement our growth strategy and our subsidiaries grow, the demands on our key employees will expand and we will need to recruit additional qualified employees for us and, possibly, for our subsidiaries. The competition for such qualified personnel is intense, and the loss of services of certain key personnel or our or our subsidiaries' inability to attract additional personnel to fill critical positions could adversely affect our business.

We currently depend heavily upon the efforts and abilities of our management team and the management teams of our subsidiaries. The loss or unavailability of the services of any of these individuals could have a material adverse effect on our business, prospects, financial condition and results. In addition, we have not obtained, do not own, nor are we the beneficiary of key-person life insurance for any of our and our subsidiaries' key personnel. We only maintain a limited amount of directors' and officers' liability insurance coverage. There can be no assurance that this coverage will be sufficient to cover the costs of the events that may occur, in which case, there could be a substantial impact on our and our subsidiaries' ability to continue operations.

Our and our subsidiaries' employees, consultants, or third-party partners may engage in misconduct or other improper activities, including but not necessarily limited to noncompliance with regulatory standards and requirements or internal procedures, policies or agreements to which such employees, consultants and partners are subject, any of which could have a material adverse effect on our business.

We and our subsidiaries are exposed to the risk of employee fraud or other misconduct. Misconduct by employees, consultants, or third party partners could include intentional failures to comply with FDA regulations, provide accurate information to the FDA, comply with manufacturing standards we have established, comply with federal and state healthcare fraud and abuse laws and regulations, report financial information or data accurately, comply with internal procedures, policies or agreements to which such employees, consultants or partners are subject, or disclose unauthorized activities to us and our subsidiaries. In particular, sales, marketing and business arrangements in the healthcare industry are subject to extensive laws and regulations intended to prevent fraud, kickbacks, self-dealing and other abusive practices. These laws and regulations may restrict or prohibit a wide range of pricing, discounting, marketing and promotion, sales commission, customer incentive programs and other business arrangements. Employee, consultant, or third-party misconduct could also involve the improper use of information obtained in the course of clinical trials, which could result in regulatory sanctions and serious harm to our reputation. The precautions we and our subsidiaries take to detect and prevent this activity may not be effective in controlling unknown or unmanaged risks or losses or in protecting us and our subsidiaries from governmental investigations or other actions or lawsuits stemming from a failure to be in compliance with such laws or regulations. If any such actions are instituted against us or our subsidiaries, and we or our subsidiaries are not successful in defending ourselves or asserting our rights, those actions could have a significant impact on our business and results of operations, including the imposition of significant fines or other sanctions.

We and our subsidiaries receive a large amount of proprietary information from potential or existing licensors of intellectual property and potential acquisition target companies, all pursuant to confidentiality agreements. The confidentiality and proprietary invention assignment agreements that we and our subsidiaries have in place with each of our employees and consultants prohibit the unauthorized disclosure of such information, but such employees or consultants may nonetheless disclose such information through negligence or willful misconduct. Any such unauthorized disclosures could subject us and our subsidiaries to monetary damages and/or injunctive or equitable relief. The notes, analyses and memoranda that we and our subsidiaries have generated based off such information are also valuable to our businesses, and the unauthorized disclosure or misappropriation of such materials by our and our subsidiaries' employees and consultants could significantly harm our strategic initiatives – especially if such disclosures are made to our competitor companies.

Certain of our officers and directors serve in similar roles with our subsidiaries, affiliates, related parties and other parties with whom we transact business; ongoing and future relationships and transactions between these parties could result in conflicts of interest.

We share directors and/or officers with certain of our subsidiaries, affiliates, related parties or other companies with which we transact business, and such arrangements could create conflicts of interest in the future, including with respect to the allocation of corporate opportunities. While we believe that we have put in place policies and procedures to identify such conflicts and that any existing agreements that may give rise to such conflicts and any such policies or procedures were negotiated at arm's length in conformity with fiduciary duties, such conflicts of interest may nonetheless arise. The existence and consequences of such potential conflicts could expose us and our subsidiaries to lost profits, claims by our investors and creditors, and harm to our and our subsidiaries' results of operations.

## Risks Related to Our Biopharmaceutical Business and Industry

We are an early-stage company, with limited operating history on which stockholders can base an investment decision; we also have numerous early-stage subsidiaries that rely heavily on third parties for the development and manufacturing of their products and product candidates.

We are primarily an early-stage biopharmaceutical company and certain of our subsidiaries, on whose success we largely rely, are also early-stage biopharmaceutical companies. To date, we and certain of our subsidiaries have engaged primarily in R&D and investment activities and have not generated any revenues from product sales. We and certain of our subsidiaries have incurred significant net losses since our inception. As of March 31, 2018, we had an accumulated deficit of approximately \$333.1 million. We and certain of our subsidiaries have not demonstrated the ability to perform the functions necessary for the successful commercialization of any of our products. The successful commercialization of our and certain of our subsidiaries' products will require us and our subsidiaries to perform or contract with third parties for performance of a variety of critical functions, including, but not necessarily limited to:

- · identifying, developing, and commercializing product candidates;
- entering into successful licensing and other arrangements with product development partners;
- continuing to undertake pre-clinical development and designing and executing clinical trials;
- · participating in regulatory approval processes;
- formulating and manufacturing products for clinical development programs and commercial sale; and
- · conducting sales and marketing activities.

Our operations have been limited to acquiring, developing and securing the proprietary rights for, and undertaking pre-clinical development and clinical trials of product candidates, and making investments in other companies. These operations provide a limited basis for our stockholders and prospective investors to assess our ability to commercialize product candidates, develop potential product candidates and make successful investments in other companies, as well as for you to assess the advisability of investing in our securities. Each of these requirements will require substantial time, effort and financial resources.

If we or certain of our subsidiaries are unable to establish or maintain sales and marketing capabilities or fail to enter into agreements with third parties to market, distribute and sell products that may be successfully developed, neither we nor our subsidiaries may be able to effectively market and sell products and continue to generate product revenue.

Neither we nor our biopharmaceutical subsidiaries (other than Journey Medical Corporation) currently have the infrastructure for the sales, marketing and distribution of any of our product candidates, and we and certain of our subsidiaries must build and maintain this infrastructure or make arrangements with third parties to perform these functions in order to continue to commercialize any products that we may successfully develop. The establishment and development of a sales force, either by us, certain of our subsidiaries or jointly with a partner, or the establishment of a contract sales force to market any products we or our subsidiaries may develop, is expensive and time-consuming and could delay any product launch or compromise the successful commercialization of products. If we, certain of our subsidiaries, or our respective partners, are unable to establish and maintain sales and marketing capabilities or any other non-technical capabilities necessary to commercialize any products that may be successfully developed, we or certain of our subsidiaries will need to contract with third parties to market and sell such products. We or certain of our subsidiaries may not be able to establish arrangements with third parties on acceptable terms, or at all.

If any of our or certain of our subsidiaries' product candidates that are successfully developed do not achieve broad market acceptance among physicians, patients, healthcare payors and the medical community, the revenues that any such product candidates generate from sales will be limited.

Even if our or certain of our subsidiaries' product candidates receive regulatory approval, they may not gain market acceptance among physicians, patients, healthcare payors and the medical community. Coverage and reimbursement of our or certain of our subsidiaries' product candidates by third-party payors, including government payors, generally is also necessary for commercial success. The degree of market acceptance of any approved products will depend on a number of factors, including, but not necessarily limited to:

- the efficacy and safety as demonstrated in clinical trials;
- the timing of market introduction of such product candidate as well as competitive products;
- the clinical indications for which the product is approved;
- · acceptance by physicians, major operators of hospitals and clinics and patients of the product as a safe and effective treatment;
- the potential and perceived advantages of product candidates over alternative treatments;
- the safety of product candidates seen in a broader patient group, including its use outside the approved indications;
- the cost of treatment in relation to alternative treatments;
- the availability of adequate reimbursement and pricing by third parties and government authorities;
- the approval, availability, market acceptance and reimbursement for a companion diagnostic, if any;
- changes in regulatory requirements by government authorities for our product candidates;
- · relative convenience and ease of administration;
- the prevalence and severity of side effects and adverse events;
- the effectiveness of our sales and marketing efforts; and
- · unfavorable publicity relating to the product.

If any product candidate is approved but does not achieve an adequate level of acceptance by physicians, hospitals, healthcare payors and patients, we or certain of our subsidiaries may not generate sufficient revenue from these products and in turn we may not become or remain profitable.

Healthcare reform and changes to restrictions on reimbursements are difficult to predict and may limit our financial returns.

Our ability and the ability of certain of our subsidiaries and all of our respective collaborators to commercialize product candidates that are successfully developed may depend, in part, on the extent to which government health administration authorities, private health insurers and other organizations will reimburse consumers for the cost of these products. These third parties are increasingly challenging both the need for and the price of new drug products. Significant uncertainty exists as to the reimbursement status of newly approved therapeutics. Adequate third-party reimbursement may not be available for our or certain of our subsidiaries' product candidates, which would prevent those product candidates from selling at price levels sufficient to realize an appropriate return on investments in research and product development.

Additionally, we are unable to predict the future course of federal or state health care legislation and regulations, including regulations related to the health care reform legislation enacted in March 2010, known as the Patient Protection and Affordable Care Act, as amended by the Health Care and Education Affordability Reconciliation Act, or collectively the ACA. The Affordable Care Act and any revisions or replacements of that Act, any substitute legislation, and other changes in the law or regulatory framework could have a material adverse effect on our business.

Among the provisions of the ACA of importance to our potential product candidates are:

- an annual, nondeductible fee on any entity that manufactures, or imports specified branded prescription drugs and biologic agents, apportioned among these entities according to their market share in certain government healthcare programs;
- an increase in the statutory minimum rebates a manufacturer must pay under the Medicaid Drug Rebate Program to 23.1% and 13.0% of the average manufacturer price for branded and generic drugs, respectively;

- expansion of healthcare fraud and abuse laws, including the federal False Claims Act and the federal Anti-Kickback Statute, new government investigative powers and enhanced penalties for non-compliance;
- a new Medicare Part D coverage gap discount program, in which manufacturers must agree to offer 50% point-of-sale discounts off negotiated prices of applicable brand drugs to eligible beneficiaries during their coverage gap period, as a condition for a manufacturer's outpatient drugs to be covered under Medicare Part D;
- extension of a manufacturer's Medicaid rebate liability to covered drugs dispensed to individuals who are enrolled in Medicaid managed care organizations;
- expansion of eligibility criteria for Medicaid programs by, among other things, allowing states to offer Medicaid coverage to additional individuals and by adding new mandatory eligibility categories for certain individuals with income at or below 138% of the federal poverty level, thereby potentially increasing a manufacturer's Medicaid rebate liability;
- expansion of the entities eligible for discounts under the 340B Drug Pricing Program;
- the new requirements under the federal Open Payments program and its implementing regulations;
- a new requirement to annually report drug samples that manufacturers and distributors provide to physicians; and
- a new Patient-Centered Outcomes Research Institute to oversee, identify priorities in, and conduct comparative clinical effectiveness research, along with funding for such research.

The Supreme Court upheld the ACA in the main challenge to the constitutionality of the law in 2012. The Supreme Court also upheld federal subsidies for purchasers of insurance through federally facilitated exchanges in a decision released in June 2015. Any remaining legal challenges to the ACA are viewed generally as not significantly impacting the implementation of the law if the plaintiffs prevail.

The U.S. President signed an Executive Order in 2017 instructing federal agencies to waive or delay requirements of the ACA that impose economic or regulatory burdens on states, families, the health-care industry and others. Modifications to or repeal of all or certain provisions of the ACA have been attempted in Congress as a result of the outcome of the recent presidential and congressional elections, consistent with statements made by the incoming administration and members of Congress during the presidential and congressional campaigns and following the election. In January 2017, Congress voted to adopt a budget resolution for fiscal year 2017, or the Budget Resolution, that authorizes the implementation of legislation that would repeal portions of the ACA. The Budget Resolution is not a law. However, it is widely viewed as the first step toward the passage of legislation that would repeal certain aspects of the ACA. In March 2017, following the passage of the budget resolution for fiscal year 2017, the U.S. House of Representatives passed legislation known as the American Health Care Act of 2017, which, if enacted, would amend or repeal significant portions of the ACA. Attempts in the Senate in 2017 to pass similar ACA repeal legislation, including the Better Care Reconciliation Act of 2017, were unsuccessful. However, in December 2017, the Tax Cuts and Jobs Act was enacted, which includes a provision that effectively repeals the ACA's individual mandate by reducing the tax penalty for failing to maintain minimum essential coverage to zero.

Legislative proposals such as expanding the Medicaid drug rebate program to the Medicare Part D program, providing authority for the government to negotiate drug prices under the Medicare Part D program and lowering reimbursement for drugs covered under the Medicare Part B program have been raised in Congress but have been met with opposition and have not been enacted so far.

The administration can rely on its existing statutory authority to make policy changes that could have an impact on the drug industry. For example, the Medicare program has in the past proposed to test alternative payment methodologies for drugs covered under the Part B program and finalized a proposal to pay hospitals less for Part B-covered drugs purchased through the 340B Drug Pricing Program effective January 1, 2018.

We expect that the ACA, as well as other healthcare reform measures that may be adopted in the future, may result in more rigorous coverage criteria and in additional downward pressure on the price that we receive for any approved drug. Any reduction in reimbursement from Medicare or other government healthcare programs may result in a similar reduction in payments from private payors. The implementation of cost containment measures or other healthcare reforms may prevent us from being able to generate revenue, attain profitability or commercialize our drugs.

The United Kingdom's announced withdrawal from the EU could have a negative effect on global economic conditions and financial markets, EU regulatory procedures and our business.

In June 2016, a majority of voters in the United Kingdom, or the UK, elected in a national referendum to withdraw from the EU. In March 2017, the UK government formally initiated the withdrawal process. That pending withdrawal, currently scheduled to occur in or before March 2019, has created significant uncertainty about the future relationship between the UK and the EU, including with respect to the laws and regulations that will apply as the UK determines which EU laws to replace or replicate upon withdrawal. The pending withdrawal has also given rise to calls for the governments of other EU member states to consider withdrawal. These developments, or the perception that any of them could occur, have had and may continue to have a material adverse effect on global economic conditions and the stability of global financial markets, and may significantly reduce global market liquidity and restrict the ability of key market participants to operate in certain financial markets. Any of these factors could depress economic activity and restrict access to capital, which could have a material adverse effect on our business, financial condition, results of operations and growth prospects.

The UK's withdrawal from the EU also means that the EMA, from which we and certain of our subsidiaries must obtain approval to sell any product in the EU, must relocate from its current headquarters in the UK to a new location within the EU. This relocation of the EMA could significantly disrupt its operations, which could cause delays in the EMA's review and approval of marketing authorization applications. Such a disruption could impact any future applications for EMA approval of our and our subsidiaries' drug candidates, which could have a material adverse effect on our business, financial condition and results of operations and growth prospects.

Our, and our subsidiaries', current and future relationships with customers and third-party payors in the United States and elsewhere may be subject, directly or indirectly, to applicable anti-kickback, fraud and abuse, false claims, transparency, health information privacy and security and other healthcare laws and regulations, which could expose us or our subsidiaries to criminal sanctions, civil penalties, contractual damages, reputational harm, administrative burdens and diminished profits and future earnings.

Healthcare providers, physicians and third-party payors in the US and elsewhere will play a primary role in the recommendation and prescription of any product candidates for which we, or our subsidiaries, obtain marketing approval. Our, and our subsidiaries', future arrangements with third-party payors and customers may expose us to broadly applicable fraud and abuse and other healthcare laws and regulations, including, without limitation, the federal Anti-Kickback Statute and the federal False Claims Act, which may constrain the business or financial arrangements and relationships through which we and our subsidiaries sell, market and distribute any product candidates for which we obtain marketing approval. In addition, we or our subsidiaries may be subject to transparency laws and patient privacy regulation by the federal and state governments and by governments in foreign jurisdictions in which we conduct our business. The applicable federal, state and foreign healthcare laws and regulations that may affect our ability to operate, or our subsidiaries' ability to operate, include, but are not necessarily limited to:

- the federal Anti-Kickback Statute, which prohibits, among other things, persons from knowingly and willfully soliciting, offering, receiving or providing remuneration, directly or indirectly, in cash or in kind, to induce or reward, or in return for, either the referral of an individual for, or the purchase, order or recommendation of, any good or service, for which payment may be made under federal and state healthcare programs, such as Medicare and Medicaid;
- federal civil and criminal false claims laws and civil monetary penalty laws, including the federal False Claims Act, which impose criminal and civil penalties, including civil whistleblower or qui tam actions, against individuals or entities for knowingly presenting, or causing to be presented, to the federal government, including the Medicare and Medicaid programs, claims for payment that are false or fraudulent or making a false statement to avoid, decrease or conceal an obligation to pay money to the federal government; the federal Health Insurance Portability and Accountability Act of 1996, or HIPAA, which imposes criminal and civil liability for executing a scheme to defraud any healthcare benefit program or making false statements relating to healthcare matters;
- HIPAA, as amended by the Health Information Technology for Economic and Clinical Health Act of 2009, or HITECH, and their respective implementing regulations, which impose obligations on covered healthcare providers, health plans, and healthcare clearinghouses, as well as their business associates that create, receive, maintain or transmit individually identifiable health information for or on behalf of a covered entity, with respect to safeguarding the privacy, security and transmission of individually identifiable health information;
- the federal Open Payments program, which requires manufacturers of certain drugs, devices, biologics and medical supplies for which payment is available under Medicare, Medicaid or the Children's Health Insurance Program, with specific exceptions, to report annually to the Centers for Medicare & Medicaid Services, or CMS, information related to "payments or other transfers of value" made to physicians, which is defined to include doctors, dentists, optometrists, podiatrists and chiropractors, and teaching hospitals and applicable manufacturers and applicable group purchasing organizations to report annually to CMS ownership and investment interests held by the physicians and their immediate family members. Data collection began on August 1, 2013 with requirements for manufacturers to submit reports to CMS by March 31, 2014 and 90 days after the end each subsequent calendar year. Disclosure of such information was made by CMS on a publicly available website beginning in September 2014; and

analogous state and foreign laws and regulations, such as state anti-kickback and false claims laws, which may apply to sales or marketing arrangements and claims involving healthcare items or services reimbursed by non-governmental third-party payors, including private insurers; state and foreign laws that require pharmaceutical companies to comply with the pharmaceutical industry's voluntary compliance guidelines and the relevant compliance guidance promulgated by the federal government or otherwise restrict payments that may be made to healthcare providers; state and foreign laws that require drug manufacturers to report information related to payments and other transfers of value to physicians and other healthcare providers or marketing expenditures; and state and foreign laws governing the privacy and security of health information in certain circumstances, many of which differ from each other in significant ways and often are not preempted by HIPAA, thus complicating compliance efforts.

Efforts to ensure that our business and our subsidiaries' business arrangements with third parties will comply with applicable healthcare laws and regulations may involve substantial costs. It is possible that governmental authorities will conclude that our or our subsidiaries' business practices may not comply with current or future statutes, regulations or case law involving applicable fraud and abuse or other healthcare laws and regulations. If our or our subsidiaries' operations are found to be in violation of any of these laws or any other governmental regulations that may apply to us, we may be subject to significant civil, criminal and administrative penalties, including, without limitation, damages, fines, imprisonment, exclusion from participation in government healthcare programs, such as Medicare and Medicaid, and the curtailment or restructuring of our operations, which could have a material adverse effect on our business. If any of the physicians or other healthcare providers or entities with whom we expect to do business, including our collaborators, is found not to be in compliance with applicable laws, it may be subject to criminal, civil or administrative sanctions, including exclusions from participation in government healthcare programs, which could also materially affect our business.

Failure to be included in formularies developed by managed care organizations and coverage by other organizations may negatively impact the utilization of our and certain of our subsidiaries' products, which could harm our and our subsidiaries' market shares and could have a material adverse effect on our business and financial condition.

Managed care organizations and other third party payors try to negotiate the pricing of medical services and products to control their costs. Managed care organizations and pharmacy benefit managers typically develop formularies to reduce their cost for medications. Formularies can be based on the prices and therapeutic benefits of the available products. Due to their lower costs, generic products are often favored. The breadth of the products covered by formularies varies considerably from one managed care organization to another, and many formularies include alternative and competitive products for treatment of particular medical conditions. Failure to be included in such formularies or to achieve favorable formulary status may negatively impact the utilization and market share of our and certain of our subsidiaries' products. If our and our subsidiaries' products are not included within an adequate number of formularies or adequate reimbursement levels are not provided, or if those policies increasingly favor generic products, this could have a material adverse effect on our business and financial condition.

Our product candidates and certain of our subsidiaries' product candidates are at an early stage of development and may not be successfully developed or commercialized.

Our existing product candidates, and most of our subsidiaries' product candidates remain in the early stage of development and will require substantial further capital expenditures, development, testing and regulatory clearances prior to commercialization. The development and regulatory approval process takes several years, and it is not likely that our product candidates or all our subsidiaries' product candidates, even if successfully developed and approved by the FDA, would be commercially available for several years. Of the large number of drugs in development, only a small percentage successfully completes the FDA regulatory approval process and is commercialized. Accordingly, even if we and our subsidiaries are able to obtain the requisite financing to fund development programs, we cannot assure you that any of our or our subsidiaries' product candidates will be successfully developed or commercialized, which could result in the failure of our business and a loss of your investment in our Company.

Because we and certain of our subsidiaries in-license certain product candidates from third parties, any dispute with the licensors or the non-performance of such license agreements may adversely affect our and our subsidiaries' ability to develop and commercialize the applicable product candidates.

All of our existing product candidates and certain of our subsidiaries' product candidates, including related intellectual property rights, were in-licensed from third parties. Under the terms of the license agreements, the licensors generally have the right to terminate such agreements in the event of a material breach. The licenses require us and certain of our subsidiaries to make annual, milestone or other payments prior to commercialization of any product and our and our subsidiaries' ability to make these payments depends on the ability to generate cash in the future. These license agreements also generally require the use of diligent and reasonable efforts to develop and commercialize product candidates.

If there is any conflict, dispute, disagreement or issue of non-performance between us or one of our subsidiaries, on the one hand, and the respective licensing partner, on the other hand, regarding the rights or obligations under the license agreements, including any conflict, dispute or disagreement arising from a failure to satisfy payment obligations under such agreements, the ability to develop and commercialize the affected product candidate may be adversely affected.

The types of disputes which may arise between us and our subsidiaries and the third parties from whom we and our subsidiaries license intellectual property include, but are not limited to:

- the scope of rights granted under such license agreements and other interpretation-related issues;
- the extent to which our technology and processes infringe on intellectual property of the licensor that is not subject to such license agreements;
- the sublicensing of patent and other rights under our license agreements and/or collaborative development relationships, and the rights and obligations associated with such sublicensing;
- the diligence and development obligations under license agreements (which may include specific diligence milestones) and what activities or achievements satisfy those diligence obligations;
- · whether or not the milestones associated with certain milestone payment obligations have been achieved or satisfied;
- the applicability or scope of indemnification claims or obligations under such license agreements;
- the permissibility and advisability of, and strategy regarding, the pursuit of potential third-party infringers of the intellectual property that is the subject of such license agreements;
- the calculation of royalty, sublicense revenue and other payment obligations under such license agreements;
- the extent to which license rights, if any, are retained by licensors under such license agreements;
- whether or not a material breach has occurred under such license agreements and the extent to which such breach, if deemed to have occurred, is or can be cured within applicable cure periods, if any;
- disputes regarding patent filing and prosecution decisions, as well as payment obligations regarding past and ongoing patent expenses;
- the inventorship and ownership of inventions and know-how resulting from the joint creation or use of intellectual property by our licensors and us and our partners; and
- the priority of invention of patented technology.

In addition, the agreements under which we and our subsidiaries currently license intellectual property or technology from third parties are complex, and certain provisions in such agreements may be susceptible to multiple interpretations or may conflict in such a way that puts us in breach of one or more agreements, which would make us susceptible to lengthy and expensive disputes with one or more of such third-party licensing partners. The resolution of any contract interpretation disagreement that may arise could narrow what we believe to be the scope of our and our subsidiaries' rights to the relevant intellectual property or technology, or increase what we believe to be our and our subsidiaries' financial or other obligations under the relevant agreements, either of which could have a material adverse effect on our business, financial condition, results of operations and prospects. Moreover, if disputes over intellectual property that we or our subsidiaries have licensed prevent or impair our ability to maintain our current licensing arrangements on commercially acceptable terms, we or our subsidiaries may be unable to successfully develop and commercialize the affected product candidates, which could have a material adverse effect on our business, financial conditions, results of operations and prospects.

Product candidates that we or certain of our subsidiaries advance into clinical trials may not receive regulatory approval.

Pharmaceutical development has inherent risk. We and certain of our subsidiaries will be required to demonstrate through well-controlled clinical trials that product candidates are effective with a favorable benefit-risk profile for use in their target indications before seeking regulatory approvals for their commercial sale. Success in early clinical trials does not mean that later clinical trials will be successful, as product candidates in later-stage clinical trials may fail to demonstrate sufficient safety or efficacy despite having progressed through initial clinical testing. Also, we or our subsidiaries may need to conduct additional clinical trials that are not currently anticipated. Companies frequently suffer significant setbacks in advanced clinical trials, even after earlier clinical trials have shown promising results. As a result, product candidates that we or our subsidiaries advance into clinical trials may not receive regulatory approval.

In addition, even if our or certain of our subsidiaries' product candidates were to obtain approval, regulatory authorities may approve any of such product candidates or any future product candidate for fewer or more limited indications than we or our subsidiaries request, may not approve the price we or our subsidiaries intend to charge for our products, may grant approval contingent on the performance of costly post-marketing clinical trials, or may approve a product candidate with a label that does not include the labeling claims necessary or desirable for the successful commercialization of that product candidate. Any of these scenarios could compromise the commercial prospects for one or more of our or our subsidiaries current or future product candidates.

Moreover, in all interactions with regulatory authorities, the company is exposed to liability risks under the Foreign Corrupt Practices Act or similar anti-bribery laws.

Any product candidates we or certain of our subsidiaries advance into clinical development are subject to extensive regulation, which can be costly and time consuming, cause unanticipated delays or prevent the receipt of the required approvals to commercialize product candidates.

The clinical development, manufacturing, labeling, storage, record-keeping, advertising, promotion, import, export, marketing and distribution of any product candidate, including our product candidates, and certain of our subsidiaries' product candidates, is subject to extensive regulation by the FDA in the United States and by comparable health authorities in foreign markets. In the United States, neither we nor our subsidiaries are permitted to market our product candidates until such product candidate's Biologics License Application ("BLA") or New Drug Application is approved by the FDA. The process of obtaining approval is expensive, often takes many years and can vary substantially based upon the type, complexity and novelty of the products involved. Certain of our subsidiaries' development of individualized immunotherapies, if any, will face similar challenges. In addition to the significant clinical testing requirements, our and our subsidiaries' ability to obtain marketing approval for product candidates depends on obtaining the final results of required non-clinical testing, including characterization of the manufactured components of our and our subsidiaries' product candidates and validation of our and our subsidiaries' manufacturing processes. The FDA may determine that our or our subsidiaries' product manufacturing processes, testing procedures or facilities are insufficient to justify approval. Approval policies or regulations may change, and the FDA has substantial discretion in the pharmaceutical approval process, including the ability to delay, limit or deny approval of a product candidate for many reasons. Despite the time and expense invested in clinical development of product candidates, regulatory approval is never guaranteed.

The FDA and other regulatory agencies can delay, limit or deny approval of a product candidate for many reasons, including, but not limited to:

- the FDA or comparable foreign regulatory authorities may disagree with the design or implementation of our clinical trials or those of certain of our subsidiaries;
- our or certain of our subsidiaries' inability to demonstrate to the satisfaction of the FDA that a product candidate is safe and effective for any indication;
- the FDA may not accept clinical data from trials which are conducted by individual investigators or in countries where the standard of care is potentially different from that of the United States;
- the results of clinical trials may not meet the level of statistical significance required by the FDA for approval;
- the FDA may disagree with the interpretation of data from preclinical studies or clinical trials;
- the FDA may fail to approve the manufacturing processes or facilities or those of third-party manufacturers with which we, or certain of our subsidiaries or our respective collaborators contract for clinical and commercial supplies; or
- the approval policies or regulations of the FDA may significantly change in a manner rendering the clinical data insufficient for approval or the product characteristics or benefit-risk profile unfavorable for approval.

With respect to foreign markets, approval procedures vary among countries and, in addition to the aforementioned risks, can involve additional product testing, administrative review periods and agreements with pricing authorities. In addition, recent events raising questions about the safety of certain marketed pharmaceuticals may result in increased cautiousness by the FDA and comparable foreign regulatory authorities in reviewing new pharmaceuticals based on safety, efficacy or other regulatory considerations and may result in significant delays in obtaining regulatory approvals. Any delay in obtaining, or inability to obtain, applicable regulatory approvals would prevent us or our subsidiaries from commercializing our product candidates.

Any product candidate we or certain of our subsidiaries advance into clinical trials may cause unacceptable adverse events or have other properties that may delay or prevent their regulatory approval or commercialization or limit their commercial potential.

Unacceptable adverse events caused by any of our or certain of our subsidiaries' product candidates that we advance into clinical trials could cause regulatory authorities to interrupt, delay or stop clinical trials and could result in the denial of regulatory approval by the FDA or other regulatory authorities for any or all targeted indications and markets. This, in turn, could prevent us or certain of our subsidiaries from commercializing the affected product candidate and generating revenues from its sale. For example, in Phase 1/2 oncology trials, dose limiting toxicity ("DLT") stopping rules are commonly applied.

Neither we nor certain of our subsidiaries have completed testing of all our product candidates for the treatment of the indications for which we intend to seek product approval in humans, and we currently do not know the extent of adverse events, if any, that will be observed in patients who receive any of our or our subsidiaries' product candidates. If any of our or our subsidiaries' product candidates cause unacceptable adverse events in clinical trials, neither we nor our subsidiaries may be able to obtain regulatory approval or commercialize such products or, if such product candidates are approved for marketing, future adverse events could cause us or certain of our subsidiaries to withdraw such products from the market.

Delays in the commencement of our and certain of our subsidiaries' clinical trials could result in increased costs and delay our or certain of our subsidiaries' ability to pursue regulatory approval.

The commencement of clinical trials can be delayed for a variety of reasons, including, but not necessarily limited to, delays in:

- · obtaining regulatory clearance to commence a clinical trial;
- · identifying, recruiting and training suitable clinical investigators;
- reaching agreement on acceptable terms with prospective clinical research organizations ("CROs") and trial sites, the terms of which can be subject to extensive negotiation, may be subject to modification from time to time and may vary significantly among different CROs and trial sites;
- · obtaining sufficient quantities of a product candidate for use in clinical trials;
- obtaining Institutional Review Board ("IRB") or ethics committee approval to conduct a clinical trial at a prospective site;
- · identifying, recruiting and enrolling patients to participate in a clinical trial; and
- retaining (or replacing) patients who have initiated a clinical trial but may withdraw due to adverse events from the therapy, insufficient efficacy, fatigue with the clinical trial process or personal issues.

Any delays in the commencement of our or certain of our subsidiaries' clinical trials will delay our or our subsidiaries' ability to pursue regulatory approval for product candidates. In addition, many of the factors that cause, or lead to, a delay in the commencement of clinical trials may also ultimately lead to the denial of regulatory approval of a product candidate.

Suspensions or delays in the completion of clinical testing could result in increased costs and delay or prevent our or certain of our subsidiaries' ability to complete development of that product or generate product revenues.

Once a clinical trial has begun, patient recruitment and enrollment may be slower than we anticipate. Clinical trials may also be delayed as a result of ambiguous or negative interim results or difficulties in obtaining sufficient quantities of product manufactured in accordance with regulatory requirements and on a timely basis. Further, a clinical trial may be modified, suspended or terminated by us or our subsidiaries, an IRB, an ethics committee or a data safety monitoring committee overseeing the clinical trial, any clinical trial site with respect to that site, or the FDA or other regulatory authorities, due to a number of factors, including, but not necessarily limited to:

- failure to conduct the clinical trial in accordance with regulatory requirements or our or our subsidiaries' clinical protocols;
- · inspection of the clinical trial operations or clinical trial site by the FDA or other regulatory authorities resulting in the imposition of a clinical hold;
- · stopping rules contained in the protocol;
- · unforeseen safety issues or any determination that the clinical trial presents unacceptable health risks; and
- · lack of adequate funding to continue the clinical trial.

Changes in regulatory requirements and guidance also may occur, and we or certain of our subsidiaries may need to amend clinical trial protocols to reflect these changes. Amendments may require us or certain of our subsidiaries to resubmit clinical trial protocols to IRBs for re-examination, which may in turn impact the costs and timing of, and the likelihood of successfully completing, a clinical trial. If we or our subsidiaries experience delays in the completion of, or if we must suspend or terminate, any clinical trial of any product candidate, our ability of our subsidiaries to obtain regulatory approval for that product candidate will be delayed and the commercial prospects, if any, for the product candidate may suffer as a result. In addition, many of these factors may also ultimately lead to the denial of regulatory approval of a product candidate.

Even if approved, any product candidates that we or certain of our subsidiaries may develop and market may be later withdrawn from the market or subject to promotional limitations.

Neither we nor certain of our subsidiaries may be able to obtain the labeling claims necessary or desirable for the promotion of our product candidates if approved. We and certain of our subsidiaries may also be required to undertake post-marketing clinical trials. If the results of such post-marketing studies are not satisfactory or if adverse events or other safety issues arise after approval, the FDA or a comparable regulatory agency in another country may withdraw marketing authorization or may condition continued marketing on commitments from us or our subsidiaries that may be expensive and/or time consuming to complete. In addition, if we or others identify adverse side effects after any of our or our subsidiaries' products are on the market, or if manufacturing problems occur, regulatory approval may be withdrawn and reformulation of our or our subsidiaries' products, additional clinical trials, changes in labeling of our or our subsidiaries' products and additional marketing applications may be required. Any reformulation or labeling changes may limit the marketability of such products if approved.

We and certain of our subsidiaries currently rely predominantly on third parties to manufacture our preclinical and clinical pharmaceutical supplies and expect to continue to rely heavily on them and other contractors to produce commercial supplies of our products, and our dependence on third-party suppliers could adversely impact our business.

We and certain of our subsidiaries depend heavily on third party manufacturers for product supply. If our or our subsidiaries' contract manufacturers cannot successfully manufacture material that conforms to our specifications and with FDA regulatory requirements, we will not be able to secure and/or maintain FDA approval for those products. Our and our subsidiaries' third-party suppliers will be required to maintain compliance with cGMPs and will be subject to inspections by the FDA and comparable agencies and authorities in other jurisdictions to confirm such compliance. In the event that the FDA or such other agencies determine that our third-party suppliers have not complied with cGMP or comparable authorities, the relevant clinical trials could be terminated or subjected to a clinical hold until such time as we are able to obtain appropriate replacement material and/or applicable compliance and commercial product could be unfit for sale. Any delay, interruption or other issues that arise in the manufacture, packaging, or storage of our products as a result of a failure of the facilities or operations of our third-party suppliers to pass any regulatory agency inspection could significantly impair our ability to develop and commercialize our and our subsidiaries' products.

We and certain of our subsidiaries also rely on our manufacturers to purchase from third-party suppliers the materials necessary to produce product candidates for anticipated clinical trials. There are a small number of suppliers for certain capital equipment and raw materials that are used to manufacture those products. We do not have any control over the process or timing of the acquisition of these raw materials by our manufacturers. Moreover, we currently do not have any agreements for the commercial production of these raw materials. Any significant delay in the supply the raw material components for an ongoing clinical trial could considerably delay completion of our and our subsidiaries' clinical trials, product testing and potential regulatory approval.

We do not expect to have the resources or capacity to commercially manufacture our and certain of our subsidiaries' products internally, if approved, and will likely continue to be heavily dependent upon third-party manufacturers. Our dependence on third parties to manufacture and supply clinical trial materials and any approved products may adversely affect our and our subsidiaries' ability to develop and commercialize products in a timely or cost-effective manner, or at all.

We and certain of our subsidiaries rely on third parties to conduct clinical trials. If these third parties do not meet agreed upon deadlines or otherwise conduct the trials as required, our or our subsidiaries' clinical development programs could be delayed or unsuccessful and neither we nor our subsidiaries may be able to obtain regulatory approval for or commercialize our product candidates when expected or at all

Neither we nor certain of our subsidiaries have the ability to conduct all aspects of our preclinical testing or clinical trials ourselves. We and certain of our subsidiaries intend to and do use CROs to conduct planned clinical trials and will and do rely upon such CROs, as well as medical institutions, clinical investigators and consultants, to conduct our trials in accordance with specified clinical protocols. These CROs, investigators and other third parties will and do play a significant role in the conduct of our and certain of our subsidiaries' trials and the subsequent collection and analysis of data from the clinical trials.

There is no guarantee that any CROs, investigators and other third parties upon which we and our subsidiaries rely for administration and conduct of our clinical trials will devote adequate time and resources to such trials or perform as contractually required. If any of these third parties fail to meet expected deadlines, fail to adhere to our clinical protocols or otherwise perform in a substandard manner, our or our subsidiaries' clinical trials may be extended, delayed or terminated. If any of the clinical trial sites terminate for any reason, we or our subsidiaries may lose follow-up information on patients enrolled in our ongoing clinical trials unless the care of those patients is transferred to another qualified clinical trial site. In addition, principal investigators for our and our subsidiaries' clinical trials may serve as scientific advisers or consultants to us from time to time and receive cash or equity compensation in connection with such services. If these relationships and any related compensation result in perceived or actual conflicts of interest, the integrity of the data generated at the applicable clinical trial site may be jeopardized.

We and certain of our subsidiaries rely on clinical data and results obtained by third parties that could ultimately prove to be inaccurate or unreliable.

As part of the strategy implemented by us and our subsidiaries to mitigate development risk, we and certain of our subsidiaries seek to develop product candidates with validated mechanisms of action and we utilize biomarkers to assess potential clinical efficacy early in the development process. This strategy necessarily relies upon clinical data and other results produced or obtained by third parties, which may ultimately prove to be inaccurate or unreliable. If the third party data and results we and certain of our subsidiaries rely upon prove to be inaccurate, unreliable or not applicable to the product candidates of us and our subsidiaries, we could make inaccurate assumptions and conclusions about the product candidates of us and our subsidiaries, and our research and development efforts could be compromised and called into question during the review or any marketing applications we submit.

If our competitors develop treatments for any of the target indications of our or certain of our subsidiaries' product candidates that are approved more quickly, marketed more successfully or demonstrated to be more effective, the commercial opportunity with respect to that product candidate will be reduced or eliminated.

We and certain of our subsidiaries operate in highly competitive segments of the biopharmaceutical markets and face competition from many different sources, including commercial pharmaceutical enterprises, academic institutions, government agencies, and private and public research institutions. Our and our subsidiaries' product candidates, if successfully developed and approved, will compete with established therapies, as well as new treatments that may be introduced by our competitors. Many of our and our subsidiaries' competitors have significantly greater financial, product development, manufacturing and marketing resources than those of ours and our subsidiaries. Large pharmaceutical companies have extensive experience in clinical testing and obtaining regulatory approval for drugs. In addition, many universities and private and public research institutes are active in clinical and pre-clinical research, some in direct competition with us. Smaller or early-stage companies may also prove to be significant competitors, particularly through collaborative arrangements with large and established companies. New developments, including the development of other biological and pharmaceutical technologies and methods of treating disease, occur in the pharmaceutical and life sciences industries at a rapid pace. Developments by competitors may render our and our subsidiaries' product candidates obsolete or noncompetitive. We and our subsidiaries will also face competition from these third parties in establishing clinical trial sites and patient registration for clinical trials and in identifying and in-licensing new product candidates.

We or certain of our subsidiaries may incur substantial product liability or indemnification claims relating to the clinical testing of product candidates.

We and certain of our subsidiaries face an inherent risk of product liability exposure related to the testing of product candidates in human clinical trials, and claims could be brought against us if use or misuse of one of our or our subsidiaries' product candidates causes, or merely appears to have caused, personal injury or death. While we and our subsidiaries have and/or intend to maintain product liability insurance relating to clinical trials, that coverage may not be sufficient to cover potential claims and we or our subsidiaries may be unable to maintain such insurance. Any claims against us or our subsidiaries, regardless of their merit, could severely harm our or our subsidiaries' financial condition, strain management and other resources or destroy the prospects for commercialization of the product which is the subject of any such claim. We are unable to predict if we or our subsidiaries will be able to obtain or maintain product liability insurance for any products that may be approved for marketing. Additionally, we and certain of our subsidiaries have entered into various agreements under which we indemnify third parties for certain claims relating to product candidates. These indemnification obligations may require us or our subsidiaries to pay significant sums of money for claims that are covered by these indemnifications.

We and certain of our subsidiaries may use biological materials and hazardous materials, and any claims relating to improper handling, storage or disposal of these materials could be time consuming and costly.

We and certain of our subsidiaries may use hazardous materials, including chemicals and biological agents and compounds that could be dangerous to human health and safety or the environment. Our and certain of our subsidiaries' operations may also produce hazardous waste products. Federal, state and local laws and regulations govern the use, generation, manufacture, storage, handling and disposal of these materials and wastes. Compliance with applicable environmental laws and regulations may be expensive, and current or future environmental laws and regulations may impair our product development efforts. In addition, neither we nor our subsidiaries can entirely eliminate the risk of accidental injury or contamination from these materials or wastes. Neither we nor our subsidiaries carry specific biological or hazardous waste insurance coverage, and our property and casualty and general liability insurance policies specifically exclude coverage for damages and fines arising from biological or hazardous waste exposure or contamination. Accordingly, in the event of contamination or injury, we or any of our subsidiaries could be held liable for damages or penalized with fines in an amount exceeding our respective resources, and clinical trials or regulatory approvals could be suspended.

Although we maintain workers' compensation insurance to cover costs and expenses incurred due to injuries to our and our subsidiaries' employees resulting from the use of hazardous materials, this insurance may not provide adequate coverage against potential liabilities. Neither we nor our subsidiaries maintain insurance for environmental liability or toxic tort claims that may be asserted in connection with the storage or disposal of biological or hazardous materials.

In addition, we and certain of our subsidiaries may incur substantial costs in order to comply with current or future environmental, health and safety laws and regulations. These current or future laws and regulations may impair our research, development or production efforts. Failure to comply with these laws and regulations also may result in substantial fines, penalties or other sanctions.

Our success depends upon our and certain of our subsidiaries' ability to obtain and maintain intellectual property rights and take advantage of certain regulatory market exclusivity periods.

Our success depends, in large part, on our and certain of our subsidiaries' ability to obtain patent protection for product candidates and their formulations and uses. The patent application process is subject to numerous risks and uncertainties, and there can be no assurance that we, our subsidiaries, or our respective partners will be successful in obtaining patents. These risks and uncertainties include, but are not necessarily limited to, the following:

- patent applications may not result in any patents being issued, or the scope of issued patents may not extend to competitive product candidates and their formulations and uses developed or produced by others;
- our and our subsidiaries' competitors, many of which have substantially greater resources than us, our subsidiaries, or our partners, and many of which have made significant investments in competing technologies, may seek, or may already have obtained, patents that may limit or interfere with our or our subsidiaries' ability to make, use, and sell potential product candidates;
- there may be significant pressure on the U.S. government and other international governmental bodies to limit the scope of patent protection both inside and outside the United States for disease treatments that prove successful as a matter of public policy regarding worldwide health concerns; and
- countries other than the United States may have patent laws less favorable to patentees than those upheld by U.S. courts, allowing foreign competitors a better opportunity to create, develop and market competing products.

In addition, patents that may be issued or in-licensed may be challenged, invalidated, modified, revoked, circumvented, found to be unenforceable, or otherwise may not provide any competitive advantage. Moreover, we or our subsidiaries may be subject to a third-party pre-issuance submission of prior art to the PTO, or become involved in opposition, derivation, reexamination, *inter partes* review, post-grant review or interference proceedings challenging our patent rights or the patent rights of others. The costs of these proceedings could be substantial, and it is possible that our efforts to establish priority of invention would be unsuccessful, resulting in a material adverse effect on our US patent position. An adverse determination in any such submission, patent office trial, proceeding or litigation could reduce the scope of, render unenforceable, or invalidate, our patent rights, allow third parties to commercialize our technology or products and compete directly with us, without payment to us, or result in our inability to manufacture or commercialize products without infringing third-party patent rights. In addition, if the breadth or strength of protection provided by our patents and patent applications is threatened, it could dissuade companies from collaborating with us to license, develop or commercialize current or future product candidates. Third parties are often responsible for maintaining patent protection for our product candidates and those of our subsidiaries, at our and their expense. If that party fails to appropriately prosecute and maintain patent protection for a product candidate, our and our subsidiaries' ability to develop and commercialize or products may be adversely affected and we may not be able to prevent competitors from making, using and selling competing products. Such a failure to properly protect intellectual property rights relating to any of our or our subsidiaries' product candidates could have a material adverse effect on our financial condition and results of operati

In addition, U.S. patent laws may change, which could prevent or limit us or our subsidiaries from filing patent applications or patent claims to protect products and/or technologies or limit the exclusivity periods that are available to patent holders. For example, on September 16, 2011, the Leahy-Smith America Invents Act (the "Leahy-Smith Act"), was signed into law, and includes a number of significant changes to U.S. patent law. These include changes to transition from a "first-to-invent" system to a "first-to-file" system and to the way issued patents are challenged. The formation of the Patent Trial and Appeal Board now provides a quicker and less expensive process for challenging issued patents. These changes may favor larger and more established companies that have more resources to devote to patent application filing and prosecution. The USPTO implemented the America Invents Act on March 16, 2013.

We and our subsidiaries and our respective partners also rely on trade secrets and proprietary know-how to protect product candidates. Although we have taken steps to protect our and our subsidiaries' trade secrets and unpatented know-how, including entering into confidentiality agreements with third parties, and confidential information and inventions agreements with employees, consultants and advisers, third parties may still come upon this same or similar information independently. Despite these efforts, any of these parties may breach the agreements and may unintentionally or willfully disclose our proprietary information, including our trade secrets, and we may not be able to obtain adequate remedies for such breaches. Enforcing a claim that a party illegally disclosed or misappropriated a trade secret is difficult, expensive and time-consuming, and the outcome is unpredictable. In addition, some courts inside and outside the United States are less willing or unwilling to protect trade secrets. Moreover, if any of our trade secrets were to be lawfully obtained or independently developed by a competitor, we would have no right to prevent them, or those to whom they communicate it, from using that technology or information to compete with us. If any of our trade secrets were to be disclosed to or independently developed by a competitor, our competitive position would be harmed.

We also may rely on the regulatory period of market exclusivity for any of our or our subsidiaries' biologic product candidates that are successfully developed and approved for commercialization. Although this period in the United States is generally 12 years from the date of marketing approval (depending on the nature of the specific product), there is a risk that the U.S. Congress could amend laws to significantly shorten this exclusivity period, as initially proposed by President Obama. Once any regulatory period of exclusivity expires, depending on the status of our and our subsidiaries' patent coverage and the nature of the product, we may not be able to prevent others from marketing products that are biosimilar to or interchangeable with our or our subsidiaries' products, which would materially adversely affect us.

If we, certain of our subsidiaries or our respective partners are sued for infringing intellectual property rights of third parties, it will be costly and time consuming, and an unfavorable outcome in that litigation would have a material adverse effect on our business.

Our success also depends on our ability, many of our subsidiaries' ability and the ability of any of our respective current or future collaborators to develop, manufacture, market and sell product candidates without infringing the proprietary rights of third parties. Numerous U.S. and foreign issued patents and pending patent applications, which are owned by third parties, exist in the fields in which we and our subsidiaries are developing products, some of which may be directed at claims that overlap with the subject matter of our or our subsidiaries' intellectual property. Because patent applications can take many years to issue, there may be currently pending applications, unknown to us, which may later result in issued patents that our or our subsidiaries' product candidates or proprietary technologies may infringe. Similarly, there may be issued patents relevant to our or our subsidiaries' product candidates of which we are not aware. Publications of discoveries in the scientific literature often lag behind the actual discoveries, and patent applications in the US and other jurisdictions are typically not published until 18 months after a first filing, or in some cases not at all. Therefore, we and our subsidiaries cannot know with certainty whether we and our subsidiaries or our licensors were the first to make the inventions claimed in patents or pending patent applications that we and our subsidiaries own or licensed, or that we and our subsidiaries or our licensors were the first to file for patent protection of such inventions. In the event that a third party has also filed a US patent application relating to our product candidates or a similar invention, depending upon the priority dates claimed by the competing parties, we may have to participate in interference proceedings declared by the PTO to determine priority of invention in the US. The costs of these proceedings could be substantial, and it is possible that our efforts to establish priority of invention would be unsuccessful, resulting in a material adverse effect on our U.S. patent position. As a result, the issuance, scope, validity, enforceability and commercial value of our patent rights are highly uncertain.

There is a substantial amount of litigation involving patent and other intellectual property rights in the biotechnology and biopharmaceutical industries generally. If a third-party claims that we, our subsidiaries or any of our respective licensors, suppliers or collaborators infringe the third party's intellectual property rights, we or our subsidiaries may have to, among other things:

- obtain licenses, which may not be available on commercially reasonable terms, if at all;
- abandon an infringing product candidate or redesign products or processes to avoid infringement;
- pay substantial damages, including the possibility of treble damages and attorneys' fees, if a court decides that the product or proprietary technology at issue infringes on or violates the third party's rights;
- pay substantial royalties, fees and/or grant cross-licenses to product candidates; and/or
- defend litigation or administrative proceedings which may be costly regardless of outcome, and which could result in a substantial diversion of financial and management resources.

We or certain of our subsidiaries may be involved in lawsuits to protect or enforce patents or the patents of licensors, which could be expensive, time consuming and unsuccessful.

Competitors may infringe our or certain of our subsidiaries' patents or the patents of our respective licensors. To counter infringement or unauthorized use, we may be required to file infringement claims, which can be expensive and time consuming. Any claims we or our subsidiaries assert against accused infringers could provoke these parties to assert counterclaims against us or our subsidiaries alleging that we or our subsidiaries infringe their patents; or provoke those parties to petition the PTO to institute *inter partes* review against the asserted patents, which may lead to a finding that all or some of the claims of the patent are invalid. In addition, in a patent infringement proceeding, a court may decide that a patent of ours or our subsidiaries is invalid or unenforceable, in whole or in part, construe the patent's claims narrowly or refuse to stop the other party from using the technology at issue on the grounds that our or our subsidiaries' patents do not cover the technology in question. An adverse result in any litigation or defense proceedings could put one or more of our or our subsidiaries' patents at risk of being invalidated, found to be unenforceable, or interpreted narrowly and could likewise put patent applications at risk of not issuing. Furthermore, because of the substantial amount of discovery required in connection with intellectual property litigation, there is a risk that some of our or our subsidiaries' confidential information could be compromised by disclosure during this type of litigation.

We or certain of our subsidiaries may be subject to claims that our or our subsidiaries' consultants or independent contractors have wrongfully used or disclosed to us or our subsidiaries alleged trade secrets of their other clients or former employers.

As is common in the biopharmaceutical industry, we and certain of our subsidiaries engage the services of consultants to assist in the development of product candidates. Many of these consultants were previously employed at, or may have previously been or are currently providing consulting services to, other pharmaceutical companies, including our and our subsidiaries' competitors or potential competitors. We or our subsidiaries may become subject to claims related to whether these consultants have inadvertently or otherwise used or disclosed trade secrets or other proprietary information of their former employers or their former or current customers. Litigation may be necessary to defend against these claims. Even if we or our subsidiaries are successful in defending these claims, litigation could result in substantial costs and be a distraction to management.

Any product for which we or our subsidiaries obtain marketing approval could be subject to restrictions or withdrawal from the market and we or our subsidiaries may be subject to penalties if we fail to comply with regulatory requirements or if we experience unanticipated problems with products, when and if any of them is approved.

Any product for which we or our subsidiaries obtain marketing approval, along with the manufacturing processes and facilities, post-approval clinical data, labeling, advertising and promotional activities for such product, will be subject to continual requirements of and review by the FDA and comparable regulatory authorities. These requirements include submissions of safety and other post-marketing information and reports, registration requirements, cGMP requirements relating to quality control, quality assurance and corresponding maintenance of records and documents, requirements regarding the distribution of samples to physicians and recordkeeping, and requirements regarding company presentations and interactions with healthcare professionals. Even if we or our subsidiaries obtain regulatory approval of a product, the approval may be subject to limitations on the indicated uses for which the product may be marketed or to the conditions of approval, or contain requirements for costly post-marketing testing and surveillance to monitor the safety or efficacy of the product. We or our subsidiaries also may be subject to state laws and registration requirements covering the distribution of products. Later discovery of previously unknown problems with products, manufacturers or manufacturing processes, or failure to comply with regulatory requirements, may result in actions such as:

- restrictions on product manufacturing, distribution or use;
- restrictions on the labeling or marketing of a product;
- · requirements to conduct post-marketing studies or clinical trials;
- · warning letters;
- · withdrawal of the products from the market;
- · refusal to approve pending applications or supplements to approved applications that we or our subsidiaries submit;
- · voluntary or mandatory recall;
- fines:
- · suspension or withdrawal of marketing or regulatory approvals;
- · refusal to permit the import or export of products;
- · product seizure or detentions;
- · injunctions or the imposition of civil or criminal penalties; and
- · adverse publicity.

If we, our subsidiaries or our respective suppliers, third-party contractors, clinical investigators or collaborators are slow to adapt, or are unable to adapt, to changes in existing regulatory requirements or adoption of new regulatory requirements or policies, we, our subsidiaries, or our respective collaborators may lose marketing approval for products when and if any of them are approved, resulting in decreased revenue from milestones, product sales or royalties.

Internet and internal computer system failures or compromises of our systems or the security of confidential information could damage our reputation and harm our business.

Although a significant portion of our business is conducted using traditional methods of contact and communications such as face-to-face meetings, a portion of our business and the business of our subsidiaries is conducted through the Internet. We could experience system failures and degradations in the future. We also rely on space and office-sharing arrangements that impose additional burdens on our ability to maintain the security of confidential information. We cannot assure you that we will be able to prevent an extended and/or material system failure or the unintentional disclosure of confidential information if any of the following or similar events occurs:

- human error;
- · subsystem, component, or software failure;
- · a power or telecommunications failure;
- an earthquake, fire, or other natural disaster or act of God;
- · hacker attacks or other intentional acts of vandalism; or
- · terrorist acts or war.

We cannot predict the likelihood, nature or extent of government regulation that may arise from future legislation or administrative or executive action, either in the United States or abroad.

We cannot predict the likelihood, nature or extent of how government regulation that may arise from future legislation or administrative or executive action taken by the U.S. presidential administration may impact our business and industry. In particular, the U.S. President has taken several executive actions, including the issuance of a number of Executive Orders, that could impose significant burdens on, or otherwise materially delay, the FDA's ability to engage in routine regulatory and oversight activities such as implementing statutes through rulemaking, issuance of guidance, and review and approval of marketing applications. Notably, on January 23, 2017, President Trump ordered a civilian hiring freeze for all executive departments and agencies, including the FDA, which prohibits the FDA from filling employee vacancies or creating new positions. Under the terms of the order, the freeze will remain in effect until implementation of a plan to be recommended by the Director for the Office of Management and Budget ("OMB") in consultation with the Director of the Office of Personnel Management, to reduce the size of the federal workforce through attrition. An under-staffed FDA could result in delays in FDA's responsiveness or in its ability to review submissions or applications, issue regulations or guidance or implement or enforce regulatory requirements in a timely fashion or at all. Moreover, on January 30, 2017, President Trump issued an Executive Order, applicable to all executive agencies, including the FDA, which requires that for each notice of proposed rulemaking or final regulation to be issued in fiscal year 2017, the agency shall identify at least two existing regulations to be repealed, unless prohibited by law. These requirements are referred to as the "two-for-one" provisions. This Executive Order includes a budget neutrality provision that requires the total incremental cost of all new regulations in the 2017 fiscal year, including repealed regulations, to be no greater than zero, except in limited circumstances. For fiscal years 2018 and beyond, the Executive Order requires agencies to identify regulations to offset any incremental cost of a new regulation and approximate the total costs or savings associated with each new regulation or repealed regulation. In interim guidance issued by the Office of Information and Regulatory Affairs within OMB on February 2, 2017, the administration indicates that the "two-for-one" provisions may apply not only to agency regulations, but also to significant agency guidance documents. It is difficult to predict how these requirements will be implemented, and the extent to which they will impact the FDA's ability to exercise its regulatory authority. If these executive actions impose constraints on the FDA's ability to engage in oversight and implementation activities in the normal course, our business may be negatively impacted.

## Risks Relating to our Finances, Capital Requirements and Other Financial Matters

We are an early-stage company with a history of operating losses that is expected to continue, and we are unable to predict the extent of future losses, whether we will generate significant or any revenues or whether we will achieve or sustain profitability.

We are an early-stage company and our prospects must be considered in light of the uncertainties, risks, expenses and difficulties frequently encountered by companies in their early stages of operations. We continue to generate operating losses in all periods including losses from operations of approximately \$101.2 million, \$65.7 million and \$50.5 million for the years ended December 31, 2017, 2016 and 2015, respectively, and losses from operations of \$35.5 million for the three months ended March 31, 2018. At March 31, 2018, we had an accumulated deficit of approximately \$333.1 million. We expect to make substantial expenditures and incur increasing operating costs and interest expense in the future and our accumulated deficit will increase significantly as we expand development and clinical trial activities for our product candidates and finance investments in certain of our existing and new subsidiaries in accordance with our growth strategy. Our losses have had, and are expected to continue to have, an adverse impact on our working capital, total assets and stockholders' equity. Because of the risks and uncertainties associated with product development and our investments in certain of our subsidiaries, we are unable to predict the extent of any future losses, whether we will ever generate significant or any revenues or if we will ever achieve or sustain profitability.

At March 31, 2018, the total amount of debt outstanding was \$87.1 million. If we default on our obligations, the holders of our debt may declare the outstanding amounts immediately payable together with accrued interest. If an event of default occurs, we may not be able to cure it within any applicable cure period, if at all. If the maturity of our indebtedness is accelerated, we may not have sufficient funds available for repayment or we may not have the ability to borrow or obtain sufficient funds to replace the accelerated indebtedness on terms acceptable to us, or at all. In addition, the promissory note with IDB may limit our ability to finance future operations or satisfy capital needs or to engage in, expand or pursue our business activities. It may also prevent us from engaging in activities that could be beneficial to our business and our stockholders unless we repay the outstanding debt, which may not be desirable or possible.

We may need substantial additional funding and may be unable to raise capital when needed, which may force us to delay, curtail or eliminate one or more of our R&D programs, commercialization efforts and planned acquisitions and potentially change our growth strategy.

Our operations have consumed substantial amounts of cash since inception. During the years ended December 31, 2017, 2016 and 2015 we incurred R&D expenses of approximately \$52.5 million, \$35.1 million and \$29.8 million, respectively. For the three months ended March 31, 2018, we incurred research and development expenses of approximately \$25.1 million. We expect to continue to spend significant amounts on our growth strategy. We believe that our current cash and cash equivalents will enable us to continue to fund operations in the normal course of business for at least the next 12 months. Until such time, if ever, as we can generate a sufficient amount of product revenue and achieve profitability, we expect to seek to finance potential cash needs. Our ability to obtain additional funding when needed, changes to our operating plans, our existing and anticipated working capital needs, the acceleration or modification of our planned R&D activities, expenditures, acquisitions and growth strategy, increased expenses or other events may affect our need for additional capital in the future and require us to seek additional funding sooner than anticipated. In addition, if we are unable to raise additional capital when needed, we might have to delay, curtail or eliminate one or more of our R&D programs and commercialization efforts and potentially change our growth strategy.

Raising additional funds by issuing securities or through licensing or lending arrangements may cause dilution to our existing stockholders, restrict our operations or require us to relinquish proprietary rights.

To the extent that we raise additional capital by issuing equity securities, the share ownership of existing stockholders will be diluted. Any future debt financing may involve covenants that restrict our operations, including limitations on our ability to incur liens or additional debt, pay dividends, redeem our stock, make certain investments and engage in certain merger, consolidation or asset sale transactions, among other restrictions. In addition, if we raise additional funds through licensing or sublicensing arrangements, it may be necessary to relinquish potentially valuable rights to our or our subsidiaries' product candidates, or grant licenses on terms that are not favorable to us.

If we fail to maintain proper and effective internal control over financial reporting in the future, our ability to produce accurate and timely financial statements could be impaired, which could harm our operating results, investors' views of us and, as a result, the value of our Common Stock.

Pursuant to Section 404 of the Sarbanes Oxley Act of 2002 and related rules, our management is required to report on, and our independent registered public accounting firm is required to attest to, the effectiveness of our internal control over financial reporting. The rules governing the standards that must be met for management to assess our internal control over financial reporting are complex and require significant documentation, testing and possible remediation. To comply with the requirements of being a reporting company under the Exchange Act, we may need to further upgrade our systems, including information technology, implement additional financial and management controls, reporting systems and procedures and hire additional accounting and finance staff. If material weaknesses or deficiencies in our internal controls exist and go undetected, our financial statements could contain material misstatements that, when discovered in the future could cause us to fail to meet our future reporting obligations and cause the price of our Common Stock to decline.

## Risks Associated with our Capital Stock

Some of our executives, directors and principal stockholders can control our direction and policies, and their interests may be adverse to the interests of our other stockholders.

At March 31, 2018, Lindsay A. Rosenwald, M.D. our Chairman, President and Chief Executive Officer, beneficially owned 13.7% of our issued and outstanding capital stock, including 40,000 Series A Preferred Shares. At March 31, 2018, Michael S. Weiss, our Executive Vice Chairman, Strategic Development, beneficially owned 16.0% of our issued and outstanding capital stock. By virtue of their holdings and membership on our Board of Directors, Dr. Rosenwald and Mr. Weiss may individually influence our management and our affairs and may make it difficult for us to consummate corporate transactions such as mergers, consolidations or the sale of all or substantially all of our assets that may be favorable from our standpoint or that of our other stockholders.

The market price of our Common Stock may be volatile and may fluctuate in a way that is disproportionate to our operating performance.

Our stock price may experience substantial volatility as a result of a number of factors, including, but not necessarily limited to:

- announcements we make regarding our or our subsidiaries' current product candidates, acquisition of potential new product candidates and companies and/or in-licensing through multiple subsidiaries;
- sales or potential sales of substantial amounts of our Common Stock or issuance of debt;
- our or our subsidiaries' delay or failure in initiating or completing pre-clinical or clinical trials or unsatisfactory results of any of these trials;
- · announcements about us, our subsidiaries or about our competitors, including clinical trial results, regulatory approvals or new product introductions;
- developments concerning our or our subsidiaries' licensors and/or product manufacturers;
- · litigation and other developments relating to our or our subsidiaries' patents or other proprietary rights or those of our competitors;

- · conditions in the pharmaceutical or biotechnology industries;
- · governmental regulation and legislation;
- unstable regional political and economic conditions, such as those caused by the U.S. presidential administration change;
- · variations in our anticipated or actual operating results; and
- change in securities analysts' estimates of our performance, or our failure to meet analysts' expectations.

Many of these factors are beyond our control. The stock markets in general, and the market for pharmaceutical and biotechnological companies in particular, have historically experienced extreme price and volume fluctuations. These fluctuations often have been unrelated or disproportionate to the operating performance of these companies. These broad market and industry factors could reduce the market price of our Common Stock, regardless of our actual operating performance.

Sales of a substantial number of shares of our Common Stock, or the perception that such sales may occur, may adversely impact the price of our Common Stock.

Almost all of the 53.8 million outstanding shares of our Common Stock, inclusive of outstanding equity awards, as of March 31, 2018 are available for sale in the public market, either pursuant to Rule 144 under the Securities Act of 1933, as amended (the "Securities Act"), or an effective registration statement. In addition, pursuant to our current shelf registration statement on Form S-3, we may issue and sell shares of our common stock having an aggregate offering price of up to \$53.0 million from time to time. Any sale of a substantial number of shares of our Common Stock could cause a drop in the trading price of the Common Stock on the Nasdaq Stock Market.

We and certain of our subsidiaries have never paid and currently do not intend to pay cash dividends in the near future except for the dividend we pay on our Preferred A shares. As a result, capital appreciation, if any, will be your sole source of gain.

We and certain of our subsidiaries have never paid cash dividends on any of our or their capital stock, or made stock dividends, except for the dividend we pay on our Preferred A shares, and we and many of our subsidiaries currently intend to retain future earnings, if any, to fund the development and growth of our businesses, and retain our stock positions. In addition, the terms of existing and future debt agreements may preclude us and certain of our subsidiaries from paying cash of stock dividends. Equally, our subsidiaries are governed by their own boards of directors with individual governance and decision-making regimes and mandates to oversee such subsidiaries in accordance with their respective fiduciary duties. As a result, we alone cannot determine the acts of our subsidiaries that could maximize value to you, such as declaring cash or stock dividends. As a result, capital appreciation, if any, of our Common Stock will be your sole source of gain for the foreseeable future.

Provisions in our certificate of incorporation, our bylaws and Delaware law might discourage, delay or prevent a change in control of our Company or changes in our management and, therefore, depress the trading price of our Common Stock.

Provisions of our certificate of incorporation, our bylaws and Delaware law may have the effect of deterring unsolicited takeovers or delaying or preventing a change in control of our Company or changes in our management, including transactions in which our stockholders might otherwise receive a premium for their shares over then-current market prices. In addition, these provisions may limit the ability of stockholders to approve transactions that they may deem to be in their best interests. These provisions include:

- the inability of stockholders to call special meetings; and
- the ability of our Board of Directors to designate the terms of and issue new series of preferred stock without stockholder approval, which could include the right to approve an acquisition or other change in our control or could be used to institute a rights plan, also known as a poison pill, that would work to dilute the stock ownership of a potential hostile acquirer, likely preventing acquisitions that have not been approved by our Board of Directors.

In addition, the Delaware General Corporation Law prohibits a publicly held Delaware corporation from engaging in a business combination with an interested stockholder, generally a person which together with its affiliates owns, or within the last three years has owned, 15% of our voting stock, for a period of three years after the date of the transaction in which the person became an interested stockholder, unless the business combination is approved in a prescribed manner.

The existence of the foregoing provisions and anti-takeover measures could limit the price that investors might be willing to pay in the future for shares of our Common Stock. They could also deter potential acquirers of our Company, thereby reducing the likelihood that you could receive a premium for your Common Stock in an acquisition.

Item 2. Unregistered Sales of Equity Securities and Use of Proceeds None. Defaults Upon Senior Securities Item 3. None. Item 4. Mine Safety Disclosures None. Item 5. Other Information None. **Exhibits** Item 6. **Exhibit Index Exhibit** Number **Exhibit Title** 31.1 Certification of Chairman, President and Chief Executive Officer, pursuant to Section 302 of the Sarbanes-Oxley Act of 2002. 31.2 Certification of Chief Financial Officer, pursuant to Section 302 of the Sarbanes-Oxley Act of 2002. 32.1 Certification of the Chairman, President and Chief Executive Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002. 32.2 Certification of the Chief Financial Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002. 101.INS XBRL Instance Document. 101.SCH XBRL Taxonomy Extension Schema Document. 101.CAL XBRL Taxonomy Extension Calculation Linkbase Document. 101.DEF XBRL Taxonomy Extension Definition Linkbase Document.

XBRL Taxonomy Extension Label Linkbase Document.

XBRL Taxonomy Extension Presentation Linkbase Document.

101.LAB

101.PRE

# SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned thereunto duly authorized.

FORTRESS BIOTECH, INC.

May 10, 2018 By: /s/ Lindsay A. Rosenwald, M.D.

Lindsay A. Rosenwald, M.D., Chairman, President and Chief

Executive Officer (Principal Executive Officer)

May 10, 2018 By: /s/ Robyn M. Hunter

Robyn M. Hunter Chief Financial Officer (Principal Financial

Officer)

# CERTIFICATION PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

## I, Lindsay A. Rosenwald, M.D., certify that:

- (1) I have reviewed this Quarterly Report on Form 10-Q of Fortress Biotech, Inc. (the "Registrant");
- (2) Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- (3) Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the Registrant as of, and for, the periods presented in this report;
- (4) The Registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the Registrant and have:
  - a. designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the Registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - b. designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - evaluated the effectiveness of Registrant's disclosure controls and procedures and presented in this report our conclusions
    about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on
    such evaluation; and
  - d. disclosed in this report any change in the Registrant's internal control over financial reporting that occurred during the Registrant's most recent fiscal quarter (the Registrant's fourth quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the Registrant's internal control over financial reporting; and
- (5) The Registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the Registrant's auditors and the audit committee of the Registrant's board of directors (or persons performing the equivalent functions):
  - a. all significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which
    are reasonably likely to adversely affect the Registrant's ability to record, process, summarize and report financial information;
    and
  - any fraud, whether or not material, that involves management or other employees who have a significant role in the Registrant's internal controls over financial reporting.

Dated: May 10, 2018 By: /s/ Lindsay A. Rosenwald, M.D.

Lindsay A. Rosenwald, M.D.
Chairman, President and Chief Executive Officer
(Principal Executive Officer)

# CERTIFICATION PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

## I, Robyn M. Hunter, certify that:

- (1) I have reviewed this Quarterly Report on Form 10-Q of Fortress Biotech, Inc. (the "Registrant");
- (2) Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- (3) Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the Registrant as of, and for, the periods presented in this report;
- (4) The Registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the Registrant and have:
  - a. designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the Registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - b. designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - evaluated the effectiveness of Registrant's disclosure controls and procedures and presented in this report our conclusions
    about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on
    such evaluation; and
  - d. disclosed in this report any change in the Registrant's internal control over financial reporting that occurred during the Registrant's most recent fiscal quarter (the Registrant's fourth quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the Registrant's internal control over financial reporting; and
- (5) The Registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the Registrant's auditors and the audit committee of the Registrant's board of directors (or persons performing the equivalent functions):
  - a. all significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which
    are reasonably likely to adversely affect the Registrant's ability to record, process, summarize and report financial information;
    and
  - any fraud, whether or not material, that involves management or other employees who have a significant role in the Registrant's internal controls over financial reporting.

Dated: May 10, 2018 By: /s/ Robyn M. Hunter

Robyn M. Hunter Chief Financial Officer (Principal Financial Officer)

# CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350 AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Quarterly Report on Form 10-Q of Fortress Biotech, Inc. (the "Company") for the quarterly period ended March 31, 2018, as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Lindsay A. Rosenwald, M.D., Chairman, President, and Chief Executive Officer of the Company, hereby certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that, to my knowledge:

- (1) The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company, as of, and for, the periods presented in the Report.

Dated: May 10, 2018 By: /s/ Lindsay A. Rosenwald, M.D.

Lindsay A. Rosenwald, M.D. Chairman, President and Chief Executive Officer (Principal Executive Officer)

# CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350 AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Quarterly Report on Form 10-Q of Fortress Biotech, Inc. (the "Company") for the quarterly period ended March 31, 2018, as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Robyn M. Hunter, Chief Financial Officer of the Company, hereby certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that, to my knowledge:

- (1) The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company, as of, and for, the periods presented in the Report.

Dated: May 10, 2018 By: /s/ Robyn M. Hunter

Robyn M. Hunter Chief Financial Officer (Principal Financial Officer)