

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

FORM 10-Q

(Mark One)

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

For the quarterly period ended September 30, 2017

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: 001-33678

NOVABAY PHARMACEUTICALS, INC.
(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction of incorporation or organization)

68-0454536
(I.R.S. Employer Identification No.)

2000 Powell Street, Suite 1150, Emeryville, CA 94608
(Address of principal executive offices) (Zip Code)

Registrant's Telephone Number, Including Area Code: (510) 899-8800

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 No

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 during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files).
Yes No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a 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. (Check one):

Large accelerated filer	<input type="checkbox"/>	Accelerated filer	<input type="checkbox"/>	Emerging growth company	<input type="checkbox"/>
Non-accelerated filer	<input type="checkbox"/>	Smaller reporting company	<input checked="" type="checkbox"/>		

(Do not check if a smaller reporting company)

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes No

As of November 9, 2017, there were 15,368,304 shares of the registrant's common stock outstanding.

NOVABAY PHARMACEUTICALS, INC.

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Unless the context requires otherwise, all references in this report to “we,” “our,” “us,” the “Company” and “NovaBay” refer to NovaBay Pharmaceuticals, Inc. and its subsidiary, as applicable.

NovaBay[®], NovaBay Pharma[®], Avenova[™], NeutroPhase[®], CelleRx[®], intelli-Case[™], AgaNase[®], Aganocide[®], AgaDerm[®], Neutrox[™] and Going Beyond Antibiotics[™] are trademarks of NovaBay Pharmaceuticals, Inc. All other trademarks and trade names are the property of their respective owners.

PART I
FINANCIAL INFORMATION

ITEM 1. FINANCIAL STATEMENTS

NOVABAY PHARMACEUTICALS, INC.
CONSOLIDATED BALANCE SHEETS
(In thousands)

	September 30, 2017	December 31, 2016
	(Unaudited)	See Note 2
ASSETS		
Current assets:		
Cash and cash equivalents	\$ 6,076	\$ 9,512
Accounts receivable, net of allowance for doubtful accounts (\$28 and \$10 at September 30, 2017 and December 31, 2016, respectively)	2,230	2,120
Inventory, net of allowance for excess and obsolete inventory and lower of cost or estimated net realizable value adjustments of \$139 and \$196 at September 30, 2017 and December 31, 2016, respectively	599	873
Prepaid expenses and other current assets	1,033	1,966
Total current assets	9,938	14,471
Property and equipment, net	492	371
Other assets	626	539
TOTAL ASSETS	\$ 11,056	\$ 15,381
LIABILITIES AND STOCKHOLDERS' EQUITY		
Liabilities:		
Current liabilities:		
Accounts payable	\$ 356	\$ 455
Accrued liabilities	2,419	2,007
Deferred revenue	2,487	1,861
Total current liabilities	5,262	4,323
Deferred revenues – non-current	1,569	1,986
Deferred rent	286	327
Warrant liability	1,889	1,446
Other liabilities	218	198
Total liabilities	9,224	8,280
Stockholders' equity:		
Preferred stock: 5,000 shares authorized; none outstanding at September 30, 2017 and December 31, 2016	—	—
Common stock, \$0.01 par value; 240,000 shares authorized; 15,361 and 15,269 shares issued and outstanding at September 30, 2017 and December 31, 2016, respectively	154	153
Additional paid-in capital	113,545	110,619
Accumulated deficit	(111,867)	(103,671)
Total stockholders' equity	1,832	7,101
TOTAL LIABILITIES AND STOCKHOLDERS' EQUITY	\$ 11,056	\$ 15,381

The accompanying notes are an integral part of these consolidated financial statements.

NOVABAY PHARMACEUTICALS, INC.
CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE LOSS
(Unaudited)
(In thousands, except per share data)

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2017	2016	2017	2016
Sales:				
Product revenue, net	\$ 4,080	\$ 3,262	\$ 11,868	\$ 7,571
Other revenue, net	11	176	46	249
Total net sales	4,091	3,438	11,914	7,820
Product cost of goods sold	521	566	1,807	1,656
Gross profit	3,570	2,872	10,107	6,164
Research and development	132	4	264	1,215
Sales and marketing	3,296	2,663	10,412	8,660
General and administrative	2,311	2,266	7,134	5,241
Total operating expenses	5,739	4,933	17,810	15,116
Operating loss	(2,169)	(2,061)	(7,703)	(8,952)
Non-cash loss on changes in fair value of warrant liability	(281)	(1,671)	(501)	(2,480)
Other income (expense), net	3	(4)	9	(69)
Loss before provision for income taxes	(2,447)	(3,736)	(8,195)	(11,501)
Provision for income tax	—	—	(1)	(2)
Net loss and comprehensive loss	\$ (2,447)	\$ (3,736)	\$ (8,196)	\$ (11,503)
Net loss per share attributable to common stockholders (basic and diluted)	\$ (0.16)	\$ (0.34)	\$ (0.54)	\$ (1.54)
Weighted-average shares of common stock outstanding used in computing net loss per share of common stock	15,324	10,913	15,306	7,481

The accompanying notes are an integral part of these consolidated financial statements.

NOVABAY PHARMACEUTICALS, INC.
CONSOLIDATED STATEMENTS OF CASH FLOWS
(Unaudited)
(In thousands)

	Nine Months Ended September 30,	
	2017	2016
Operating activities:		
Net loss	\$ (8,196)	\$ (11,503)
Adjustments to reconcile net loss to net cash used in operating activities:		
Depreciation and amortization	54	98
Gain on disposal of property and equipment	—	(232)
Stock-based compensation expense for options and stock issued to employees and directors	2,135	831
Stock-based compensation expense for options and stock issued to non-employees	250	185
Issuance of RSUs to employees	—	133
Issuance of RSUs to non-employees	—	20
Warrant modification	—	270
Stock option modification	243	58
Note receivable impairment	—	91
Leasehold improvements impairment	—	66
Non-cash loss on change in fair value of warrant liability	501	2,480
Changes in operating assets and liabilities:		
Increase in accounts receivable	(109)	(1,544)
Decrease in inventory	273	261
Decrease (increase) in prepaid expenses and other current assets	943	(1,433)
Increase in other assets	(86)	(374)
Increase (decrease) in accounts payable and accrued liabilities	602	(1,923)
Increase in deferred rent	40	59
Increase in deferred revenue	6	818
Increase in other liabilities	—	198
Net cash used in operating activities	(3,344)	(11,441)
Investing activities:		
Purchases of property and equipment	(228)	(78)
Net cash used in investing activities	(228)	(78)
Financing activities:		
Proceeds from common stock issuances, net	—	13,648
Proceeds from exercise of warrants, net	38	6,571
Proceeds from exercise of stock options, net	129	—
Proceeds from stock options and restricted stock sold to cover taxes	17	15
Settlement of restricted stock for tax withholding	(48)	(15)
Proceeds from borrowings	—	1,365
Repayment of borrowings	—	(3,020)
Net cash provided by financing activities	136	18,564
Net change in cash and cash equivalents	(3,436)	7,045
Cash and cash equivalents, beginning of period	9,512	2,385
Cash and cash equivalents, end of period	\$ 6,076	\$ 9,430
Supplemental disclosure of non-cash information:		
Stock issued to consultants for services, included in accounts payable and accrued liabilities	\$ 1	\$ 7
Property and equipment purchases, included in accounts payable and accrued liabilities	\$ (52)	\$ 20
Equity transferred to warrant liability	\$ 58	\$ 1,594
Severance paid in RSU to non-employee	\$ 69	\$ —
Proceeds from stock options and restricted stock sold to cover taxes, in accounts payable and accrued liabilities	\$ 17	\$ —
Exchange of equipment for services	\$ —	\$ 279
Interest paid	\$ —	\$ 51

The accompanying notes are an integral part of these consolidated financial statements.

NOTE 1. ORGANIZATION

NovaBay Pharmaceuticals, Inc. is a biopharmaceutical company focusing on commercializing and developing its non-antibiotic anti-infective products to address the unmet therapeutic needs of the global, topical anti-infective market with its two distinct product categories: the NEUTROX[®] family of products and the AGANOCIDE[®] compounds. The Neutrox family of products includes AVENOVA[®] for the eye care market, NEUTROPHASE[®] for wound care market, and CELLERX[®] for the aesthetic dermatology market. The Aganocide compounds, still under development, have target applications in the dermatology and urology markets.

The Company was incorporated under the laws of the State of California on January 19, 2000, as NovaCal Pharmaceuticals, Inc. It had no operations until July 1, 2002, on which date it acquired all of the operating assets of NovaCal Pharmaceuticals, LLC, a California limited liability company. In February 2007, it changed its name from NovaCal Pharmaceuticals, Inc. to NovaBay Pharmaceuticals, Inc. In June 2010, the Company changed the state in which it is incorporated (the "Reincorporation"), and is now incorporated under the laws of the State of Delaware. All references to "the Company" herein refer to the California corporation prior to the date of the Reincorporation and to the Delaware corporation on and after the date of the Reincorporation. In April 2016, the Company dissolved DermaBay, a wholly-owned U.S. subsidiary that was formed to explore dermatological opportunities. Historically, the Company operated as four business segments. At the direction of its Board of Directors, the Company is now focused primarily on commercializing prescription Avenova for managing hygiene of the eyelids and lashes in the United States and is managed as a single business and not four segments.

Effective December 18, 2015, the Company effected a 1-for-25 reverse split of its outstanding common stock (the "Reverse Stock Split") (See Note 11). The accompanying financial statements and related notes give retroactive effect to the Reverse Stock Split.

Liquidity

Based primarily on the funds available at September 30, 2017, the Company believes these resources will be sufficient to fund its operations into October 2018. The Company has sustained operating losses for the majority of its corporate history and expects that its 2017 expenses will exceed its 2017 revenues, as the Company continues to re-invest in our Avenova commercialization efforts. The Company expects to continue incurring operating losses and negative cash flows until revenues reach a level sufficient to support ongoing growth and operations. Accordingly, the Company's planned operations raise doubt about its ability to continue as a going concern. The Company's liquidity needs will be largely determined by the success of operations in regards to the commercialization of Avenova. The Company's plans to alleviate the doubt of its going concern, which are being implemented to mitigate these conditions, primarily include its ability to control the timing and spending on its sales and marketing programs and raising additional funds through equity financings. The Company also may consider other plans to fund operations including: (1) out-licensing rights to certain of its products or product candidates, pursuant to which the Company would receive cash milestones or an upfront fee; (2) raising additional capital through debt financings or from other sources; (3) reducing spending on one or more of its sales and marketing programs; and/or (4) restructuring operations to change its overhead structure. The Company may issue securities, including common stock and warrants through private placement transactions or registered public offerings, which would require the filing of a Form S-1 or Form S-3 registration statement with the Securities and Exchange Commission ("SEC"). The Company's future liquidity needs, and ability to address those needs, will largely be determined by the success of the commercialization of Avenova. The accompanying financial statements have been prepared assuming the Company will continue to operate as a going concern, which contemplates the realization of assets and the settlement of liabilities in the normal course of business. The consolidated financial statements do not include any adjustments to reflect the possible future effects on the recoverability and classification of assets or the amounts of liabilities that may result from uncertainty related to its ability to continue as a going concern.

NOTE 2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Basis of Presentation

The accompanying interim condensed consolidated financial statements have been prepared in accordance with the accounting principles generally accepted in the United States of America ("GAAP") and with the instructions for Form 10-Q and Regulation S-X. Accordingly, they do not include all of the information and notes required for complete financial statements. These interim condensed consolidated financial statements should be read in conjunction with the consolidated financial statements and notes thereto contained in the Company's Form 10-K filed with the Securities and Exchange Commission ("SEC") on March 23, 2017. The unaudited condensed consolidated financial statements include the accounts of the Company and its consolidated subsidiaries, as applicable. All intercompany accounts and transactions have been eliminated in consolidation.

Reclassifications

Prior period amounts in the accompanying consolidated balance sheets have been reclassified to conform to current period presentation. The reclassifications did not change total assets, total liabilities, or total stockholders' equity. Prior period amounts in the accompanying consolidated statements of operations and comprehensive loss have also been reclassified to conform to current period presentation. The reclassifications did not change the net loss or loss per share.

Additionally, prior period amounts in the accompanying consolidated statements of cash flow have also been reclassified to conform to current period presentation. The reclassifications did not change net cash used in operating activities, net cash used in investing activities, or net cash provided by financing activities.

Principles of Consolidation

The accompanying consolidated financial statements include the accounts of the Company and its wholly-owned subsidiary, DermaBay, Inc., as applicable. DermaBay, Inc. was dissolved by the Company in April 2016. All inter-company accounts and transactions have been eliminated in consolidation.

Use of Estimates

The preparation of financial statements in accordance with GAAP requires management to make estimates and assumptions that affect the amounts reported in the financial statements and accompanying notes. These estimates include useful lives for property and equipment and related depreciation calculations, estimated amortization periods for payments received from product development and license agreements as they relate to revenue recognition, assumptions for valuing options and warrants, and income taxes. Actual results could differ from those estimates.

Unaudited Interim Financial Information

The accompanying interim condensed consolidated financial statements and related disclosures are unaudited, have been prepared on the same basis as the annual consolidated financial statements and, in the opinion of management, reflect all adjustments, which include only normal recurring adjustments, necessary for a fair statement of the results of operations for the periods presented.

The year-end condensed consolidated balance sheet data was derived from audited financial statements, but does not include all disclosures required by GAAP. The condensed consolidated results of operations for any interim period are not necessarily indicative of the results to be expected for the full year or for any other future year or interim period.

Cash and Cash Equivalents

The Company considers all highly-liquid instruments with a stated maturity of three months or less at the date of purchase to be cash equivalents. Cash and cash equivalents are stated at cost, which approximates fair value. As of September 30, 2017, and December 31, 2016, the Company's cash and cash equivalents were held in two highly-rated, major financial institutions in the United States.

Concentrations of Credit Risk and Major Partners

Financial instruments that potentially subject us to significant concentrations of credit risk consist primarily of cash and cash equivalents. The Company maintains deposits of cash and cash equivalents with two highly-rated, major financial institutions in the United States.

Deposits in these banks may exceed the amount of federal insurance provided on such deposits. The Company does not believe it is exposed to significant credit risk due to the financial position of the financial institutions in which these deposits are held.

During the nine months ended September 30, 2017 and 2016, revenues were derived primarily from sales of Avenova directly to doctors through the Company's webstore and to three major distribution partners.

During the three months and nine months ended September 30, 2017 and 2016, revenues from our major distribution or collaboration partners greater than 10% were as follows:

Major distribution or collaboration partner	Three Months Ended September 30,		Nine Months Ended September 30,	
	2017	2016	2017	2016
Distributor A	25%	21%	24%	18%
Distributor B	24%	21%	24%	19%
Distributor C	23%	16%	21%	15%

As of September 30, 2017 and December 31, 2016, accounts receivable from our major distribution partners greater than 10% were as follows:

Major distribution partner	September 30, 2017	December 31, 2016
Distributor A	30%	22%
Distributor B	22%	24%
Distributor C	31%	31%

The Company relies on two contract sole source manufacturers to produce its finished goods. The Company does not have any manufacturing facilities and intends to continue to rely on third parties for the supply of finished goods. Third party manufacturers may not be able to meet the Company's needs with respect to timing, quantity or quality.

Fair Value of Financial Assets and Liabilities

Financial instruments, including cash and cash equivalents, accounts receivable, accounts payable and accrued liabilities are carried at cost, which management believes approximates fair value due to the short-term nature of these instruments. Our warrant liability is carried at fair value.

The Company measures the fair value of financial assets and liabilities based on GAAP guidance, which defines fair value, establishes a framework for measuring fair value, and requires disclosures about fair value measurements.

Under GAAP, fair value is defined as the exchange price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. A fair value hierarchy is also established, which requires an entity to maximize the use of observable inputs and minimize the use of unobservable inputs when measuring fair value. There are three levels of inputs that may be used to measure fair value:

- Level 1 – quoted prices in active markets for identical assets or liabilities;
- Level 2 – quoted prices for similar assets and liabilities in active markets or inputs that are observable; and
- Level 3 – inputs that are unobservable (for example, cash flow modeling inputs based on assumptions).

Allowance for Doubtful Accounts

The Company charges bad debt expense and records an allowance for doubtful accounts when management believes it to be unlikely that specific invoices will be collected. Management identifies amounts due that are in dispute and it believes are unlikely to be collected. As of September 30, 2017 and December 31, 2016, management reserved \$28 thousand and \$10 thousand, respectively, primarily based on specific amounts that were in dispute and were over 120 days past due at those dates.

Inventory

Inventory is comprised of (1) raw materials and supplies, such as bottles, packaging materials, labels, boxes, pumps; (2) goods in progress, which are normally unlabeled bottles; and (3) finished goods. We utilize contract manufacturers to produce our products and the cost associated with manufacturing is included in inventory. At September 30, 2017 and December 31, 2016, management had recorded an allowance for excess and obsolete inventory and lower of cost or estimated net realizable value adjustments of \$139 thousand and \$196 thousand, respectively.

Inventory is stated at the lower of cost or estimated net realizable value determined by the first-in, first-out method.

Property and Equipment

Property and equipment are stated at cost, less accumulated depreciation and amortization. Depreciation is calculated using the straight-line method over the estimated useful lives of the related assets of five to seven years for office and laboratory equipment, three years for computer equipment and software and seven years for furniture and fixtures. Leasehold improvements are depreciated over the shorter of seven years or the lease term.

The costs of normal maintenance, repairs, and minor replacements are charged to operations when incurred.

Impairment of Long-Lived Assets

The Company accounts for long-lived assets in accordance with GAAP, which requires that companies consider whether events or changes in facts and circumstances, both internally and externally, may indicate that an impairment of long-lived assets held for use are present. Management periodically evaluates the carrying value of long-lived assets. During the first quarter of fiscal year 2016, the Company impaired a note receivable which was deemed to no longer be collectable, as the originator of the loan is not in business and the collateral held against the loan did not possess value in an amount sufficient to satisfy the loan. As a result, a \$91 thousand impairment charge was recorded to research and development expense during the nine months ended September 30, 2016. There were no impairment charges during the nine months ended September 30, 2017. Determination of recoverability is based on an estimate of undiscounted future cash flows resulting from the use of the asset and its eventual disposition. In the event that such cash flows are not expected to be sufficient to recover the carrying amount of the asset, the assets are written down to their estimated fair values and the loss is recognized in the statements of operations.

Comprehensive Income (Loss)

Accounting Standards Codification (“ASC”) 220, *Comprehensive Income* requires that an entity’s change in equity or net assets during a period from transactions and other events from non-owner sources be reported. The Company reports unrealized gains and losses on its available-for-sale securities as other comprehensive income (loss).

Revenue Recognition

The Company sells products through a limited number of distributors and via its webstore. The Company generally records product sales upon shipment to the final customer for its webstore sales and upon shipment from its distributor to the final customers for its major distribution partners.

The Company recognizes product revenue when: (i) persuasive evidence that a sale arrangement exists, (ii) delivery has occurred and title has passed, (iii) the price is fixed or determinable, and (iv) collectability is reasonably assured. Revenue from sales transactions where the customer has the right to return the product is recognized at the time of sale only if: (i) the Company’s price to the customer is substantially fixed or determinable at the date of sale, (ii) the customer has paid the Company, or the customer is obligated to pay the Company and the obligation is not contingent on resale of the product, (iii) the customer's obligation to the Company would not be changed in the event of theft or physical destruction or damage of the product, (iv) the customer acquiring the product for resale has economic substance apart from that provided by the Company, (v) the Company does not have significant obligations for future performance to directly bring about resale of the product by the customer, and (vi) the amount of future returns can be reasonably estimated. If these factors were to vary, the resulting change could have a material effect on the Company’s revenue recognition and on the Company’s results of operations.

Product Revenue Allowances

Product revenue is recognized net of cash consideration paid to our customers and wholesalers, for services rendered by the wholesalers in accordance with the wholesalers’ agreements, and include a fixed rate per prescription shipped and monthly program management and data fees. These services are not deemed sufficiently separable from the customers' purchase of the product; therefore, they are recorded as a reduction of revenue at the time of revenue recognition.

Other product revenue allowances include certain prompt pay discounts and allowances offered to our customers, program rebates and chargebacks. These product revenue allowances are recognized as a reduction of revenue or as a selling expense at the later of the date at which the related revenue is recognized or the date at which the allowance is offered. Calculating certain of these items involves estimates and judgments based on sales or invoice data, contractual terms, utilization rates, new information regarding changes in these programs’ regulations and guidelines that would impact the amount of the actual rebates or chargebacks. We review the adequacy of product revenue allowances on a quarterly basis. Amounts accrued for product revenue allowances are adjusted when trends or significant events indicate that adjustment is appropriate and to reflect actual experience.

Other Revenue

License and collaboration revenue is primarily generated through agreements with strategic partners for the development and commercialization of the Company's product candidates. The terms of the agreements typically include non-refundable upfront fees, funding of research and development activities, and payments based upon achievement of certain milestones and royalties on net product sales. In accordance with authoritative guidance, the Company analyzes its multiple element arrangements to determine whether the elements can be separated. The Company performs its analysis at the inception of the arrangement and as each product or service is delivered. If a product or service is not separable, the combined deliverables are accounted for as a single unit of accounting, and revenue is recognized over the performance obligation period. The Company recognizes other revenue when the following criteria have been met: persuasive evidence of an arrangement exists; delivery has occurred, and risk of loss has passed; the seller's price to the buyer is fixed or determinable; and collectability is reasonably assured. If these factors were to vary, the resulting change could have a material effect on the Company's revenue recognition and results of operations.

Cost of Goods Sold

Cost of goods sold includes third party manufacturing costs, shipping costs, and other costs of goods sold. Cost of goods sold also includes any necessary allowance for excess and obsolete inventory along with lower of cost and estimated net realizable value.

Research and Development Costs

The Company charges research and development costs to expense as incurred. These costs include salaries and benefits for research and development personnel, costs associated with clinical trials managed by contract research organizations, and other costs associated with research, development and regulatory activities. Research and development costs may vary depending on the type of item or service incurred, location of performance or production, level of availability of the item or service, and specificity required in production for certain compounds. The Company uses external service providers to conduct clinical trials, to manufacture supplies of product candidates and to provide various other research and development-related products and services. The Company's research, clinical and development activities are often performed under agreements it enters with external service providers. The Company estimates and accrues the costs incurred under these agreements based on factors such as milestones achieved, patient enrollment, estimates of work performed, and historical data for similar arrangements. As actual costs are incurred, the Company adjusts its accruals. Historically, the Company's accruals have been consistent with management's estimates and no material adjustments to research and development expenses have been recognized. Subsequent changes in estimates may result in a material change in the Company's expenses, which could also materially affect its results of operations.

Patent Costs

Patent costs, including legal expenses, are expensed in the period in which they are incurred. Patent expenses are included in general and administrative expenses in the consolidated statements of operations and comprehensive loss.

Stock-Based Compensation

The Company accounts for stock-based compensation under the provisions of Accounting Standards Update ("ASU") No. 2014-12, *Compensation-Stock Compensation (Topic 718)*. Under the fair value recognition provisions, stock-based compensation expense is measured at the grant date for all stock-based awards to employees and directors and is recognized as expense over the requisite service period, which is generally the vesting period. Forfeitures are estimated at the time of grant and reduce compensation expense ratably over the vesting period. This estimate is adjusted periodically based on the extent to which actual forfeitures (Equity-Based Compensation) differ, or are expected to differ, from the previous estimate. See Note 12 of the Notes to Consolidated Financial Statements for further information regarding stock-based compensation expense and the assumptions used in estimating that expense. For stock options granted to employees, the fair value of the stock options is estimated using a Black-Scholes-Merton option pricing model.

Stock-based compensation arrangements with non-employees are recorded at their fair value on the measurement date. The measurement of stock-based compensation is subject to periodic adjustment as the underlying equity instruments vest. Non-employee stock-based compensation charges are amortized over the vesting period on a straight-line basis. For stock options granted to non-employees, the fair value of the stock options is estimated using a Black-Scholes-Merton option pricing model.

Income Taxes

The Company accounts for income taxes under the asset and liability method. Deferred tax assets and liabilities are recognized for the future tax consequences attributable to differences between the financial statement carrying amounts of existing assets and liabilities and their respective tax bases and operating loss and tax credit carryforwards. Deferred tax assets and liabilities are measured using enacted tax rates expected to apply to taxable income in the years in which those temporary differences are expected to be recovered or settled. The effect on deferred tax assets and liabilities of a change in tax rates is recognized in income in the period that includes the enactment date. A valuation allowance is recognized if it is more likely than not that some portion or the entire deferred tax asset will not be recognized.

Common Stock Warrant Liability

For warrants that are issued or modified and there is a deemed possibility that the Company may have to settle the warrants in cash, or for warrants the Company issues or modifies that contain an exercise price adjustment feature that reduces the exercise price of the Company's common stock eligible for purchase thereunder in the event that the Company subsequently issues equity instruments at a price lower than the exercise price of the warrants, the Company records the fair value of the issued or modified warrants as a liability at each balance sheet date and records changes in the estimated fair value as a non-cash gain or loss on the consolidated statements of operations and comprehensive loss. The fair values of these warrants have been determined using the Binomial Lattice ("Lattice") valuation model, which provides for assumptions regarding volatility, call and put features and risk-free interest rates within the total period to maturity. These values are subject to a significant degree of the Company's judgment. For additional information regarding the Company's outstanding warrants, see Note 10 of the Notes to Consolidated Financial Statements (Warrant Liability).

Net (Loss) per Share

The Company computes net (loss) per share by presenting both basic and diluted (loss) per share ("EPS").

Basic EPS is computed by dividing net (loss) available to common shareholders by the weighted average number of common shares outstanding during the period. Diluted EPS gives effect to all dilutive potential common shares outstanding during the period, including stock options and warrants, using the treasury stock method, using the if-converted method. In computing diluted EPS, the average stock price for the period is used in determining the number of shares assumed to be purchased from the exercise of stock options or warrants. Potentially dilutive common share equivalents are excluded from the diluted EPS computation in net loss periods since their effect would be anti-dilutive. During the three and nine months ended September 30, 2017 and 2016, there was no difference between basic and diluted EPS due to the Company's net losses. The following table sets forth the calculation of basic EPS and diluted EPS:

(in thousands, except per share data)	Three Months Ended September 30,		Nine Months Ended September 30,	
	2017	2016	2017	2016
Net loss	\$ (2,447)	\$ (3,736)	\$ (8,196)	\$ (11,503)
Basic Shares	15,324	10,913	15,306	7,481
Add: shares issued upon assumed exercise of stock options and warrants	—	—	—	—
Diluted shares	15,324	10,913	15,306	7,481
Basic and diluted net loss per share	\$ (0.16)	\$ (0.34)	\$ (0.54)	\$ (1.54)

The following outstanding stock options and stock warrants were excluded from the diluted net loss per share computation, as their effect would have been anti-dilutive:

(in thousands)	As of September 30,	
	2017	2016
Period end stock options to purchase common stock	2,893	1,502
Period end common stock warrants	544	929
	3,437	2,431

Recent Accounting Pronouncements

In May 2014, the Financial Accounting Standards Board (“FASB”) issued ASU No. 2014-09, *Revenue from Contracts with Customers* (Topic 606). In August 2015 and March, April, May and December 2016, the FASB issued additional amendments to the new revenue guidance relating to reporting revenue on a gross versus net basis, identifying performance obligations, licensing arrangements, collectability, noncash consideration, presentation of sales tax, transition, and clarifying examples. This new standard will replace all current GAAP guidance on this topic and eliminate all industry-specific guidance. The new revenue recognition guidance provides a unified model to determine how revenue is recognized. The core principle of the guidance is that an entity should recognize revenue to depict the transfer of promised goods or services to customers in an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services. In doing so, companies will need to use more judgment and make more estimates than under today’s guidance. These may include identifying performance obligations in the contract, estimating the amount of variable consideration to include in the transaction price, and allocating the transaction price to each performance obligation. ASU 2014-09 as amended is effective for interim and annual reporting periods beginning after December 15, 2017, and permits companies to adopt the standard early. The Company plans to adopt the new standard effective January 1, 2018, with a modified retrospective transition applying the new guidance to the most current period presented with the cumulative effect of changes reflected in the opening balance of retained earnings in the most current period presented.

While the Company is still in the process of assessing the potential impact of this new standard on its consolidated financial statements, the Company has identified transactions which, under current guidance are recognized upon shipment from its distributor to the final customers for its major distribution partners will be recognized upon transfer of control to its major distribution partners at the amount of consideration that the Company expects to be entitled to. As a result, the Company will record contract liabilities for the invoiced amounts that are estimated to be subject to significant reversal, including product revenue allowances for cash consideration paid to customers for services, discounts, rebate programs, chargebacks, and product returns. The constraint on variable consideration for product returns will be a new estimation resulting from the earlier recognition under the new guidance.

The Company has identified license and collaboration revenue for which contract deliverables are currently accounted for as a combined unit of accounting because products or services are not separable. Under the new guidance, the Company has identified separate performance obligations that are capable of being distinct. As a result, the transaction price under these arrangements, including upfront fees and milestone payments, will be allocated differently to each performance obligation and may be recognized at earlier points in time or with a different pattern of performance over time.

The Company identified the following performance obligations in its preliminary review of the license and collaboration agreements:

- Exclusive distribution rights in the product territory
- Regulatory submission and approval services
- Development services
- Sample supply, free of charge
- Incremental discounts and product supply prepayments representing a material right to the customer

The Company has found that based upon the relative estimated selling prices of each performance obligation, the licenses typically makes up the majority of the transaction price allocation for each contract. Because the licenses have been classified under the new guidance as “right to use,” for which the customers right to the intellectual property is transferred at a point in time, under the new rules the revenue for each license will be considered recognized at contract inception. Based on these findings, the Company estimates a significant majority of the current deferred revenue balance related to its license and collaboration agreements will be allocated to performance obligations that were satisfied in periods prior to adoption and included in the cumulative adjustment to retained earnings upon adoption.

The Company is still evaluating its major distribution agreements and its license and collaboration agreements and assessing the impact of adoption of the new standard to its consolidated financial statements. The Company will continue to monitor additional modifications, clarifications or interpretations undertaken by the FASB that may impact its current conclusions, and will expand its analysis to include any new or modified revenue arrangements prior to adoption. The Company expects to complete such efforts by the fourth quarter of 2017.

In August 2014, FASB issued ASU 2014-15, *Presentation of Financial Statements – Going Concern (Subtopic 205-40): Disclosure of Uncertainties about an Entity’s Ability to Continue as a Going Concern*. This new standard provides guidance around management’s responsibility to evaluate whether there is substantial doubt about an entity’s ability to continue as a going concern and to provide related footnote disclosure if substantial doubt exists. The new standard is effective for annual periods ending after December 15, 2016 and for annual periods and interim periods thereafter. Early adoption is permitted. The Company previously adopted ASU 2014-15. For adoption impact, see Note 1 to the financial statements under “*Liquidity*.”

In July 2015, the FASB issued ASU No. 2015-11, *Inventory (Topic 330): Simplifying the Measurement of Inventory*, which changes the measurement principle for inventory from the lower of cost or market to the lower of cost and net realizable value. ASU No. 2015-11 defines net realizable value as estimated selling prices in the ordinary course of business, less reasonably predictable costs of completion, disposal, and transportation. The new guidance must be applied on a prospective basis and was effective for the Company in the first quarter of fiscal year 2017. The adoption and implementation of ASU 2015-11 did not result in a material impact to the Company's consolidated financial statements.

In January 2016, the FASB issued ASU 2016-01, *Financial Instruments – Overall (Subtopic 825-10): Recognition and Measurement of Financial Assets and Financial Liabilities*, which provides guidance for the recognition, measurement, presentation, and disclosure of financial assets and liabilities. This guidance will be effective for the Company beginning in the first quarter of fiscal year 2018. The Company is evaluating the effects of the adoption of this guidance to its consolidated financial statements.

In February 2016, the FASB issued ASU 2016-02, *Leases (Topic 842)*, which supersedes the lease accounting requirements in *Leases (Topic 840)*. ASU 2016-02 requires a dual approach for lessee accounting under which a lessee would account for leases as finance leases or operating leases. Both finance leases and operating leases will result in the lessee recognizing a right-of-use asset and a corresponding lease liability. For finance leases, the lessee would recognize interest expense and amortization of the right-of-use asset, and for operating leases, the lessee would recognize a straight-line total lease expense. The guidance also requires qualitative and specific quantitative disclosures to supplement the amounts recorded in the financial statements so that users can understand more about the nature of an entity's leasing activities, including significant judgments and changes in judgments. This guidance is effective beginning in the first quarter of fiscal year 2019. The Company is evaluating the effects of the adoption of this guidance on its consolidated financial statements.

In March 2016, the FASB issued ASU 2016-09, *Compensation – Stock Compensation (Topic 718): Improvements to Employee Share-Based Payment Accounting*, which is intended to simplify several aspects of the accounting for share-based payment transactions, including the income tax consequences, classification of awards as either equity or liabilities, and classification on the statement of cash flows. This guidance was effective beginning in the first quarter of fiscal year 2017. The adoption and implementation of ASU 2016-09 did not result in a material impact to the Company's consolidated financial statements.

In August 2016, the FASB issued ASU 2016-15, *Classification of Certain Cash Receipts and Cash Payments (Topic 230)*, which addresses eight specific issues regarding the treatment of cash flow. This update is effective for the Company for its fiscal year 2018. The Company is currently evaluating the effects of the adoption of ASU 2016-15 to its consolidated financial statements.

In November 2016, the FASB issued ASU 2016-18, *Statement of Cash Flows (Topic 230)*, that will require entities to show the changes in the total of cash, cash equivalents, restricted cash and restricted cash equivalents in the statement of cash flows. This update is effective for the Company for its fiscal year 2018. The Company is currently evaluating the effects of the adoption of ASU 2016-18 to its consolidated financial statements.

In July 2017, the FASB issued ASU 2017-11, *Earnings Per Share (Topic 260), Distinguishing Liabilities from Equity (Topic 480), Derivatives and Hedging (Topic 815): I. Accounting for Certain Financial Instruments with Down Round Features and 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 applies to entities that issue financial instruments such as warrants, convertible debt or convertible preferred stock that contain down round features. Part II simply replaces the indefinite deferral for certain mandatorily redeemable noncontrolling interests and mandatorily redeemable financial instruments of nonpublic entities contained within Accounting Standards Codification (ASC) Topic 480 with a scope exception and does not impact the accounting for these mandatorily redeemable instruments. This ASU is effective for public companies for the annual reporting periods beginning after December 15, 2018, and interim periods within those annual periods. Early adoption is permitted. The Company is currently evaluating the effects of the adoption of ASU 2017-11 to its consolidated financial statements.

NOTE 3. FAIR VALUE MEASUREMENTS

The Company measures the fair value of financial assets and liabilities based on authoritative guidance which defines fair value, establishes a framework consisting of three levels for measuring fair value, and requires disclosures about fair value measurements. Fair value is defined as the exchange price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date.

The Company's warrant liability is classified within Level 3 of the fair value hierarchy because the value is calculated using significant judgment based on the Company's own assumptions in the valuation of this liability.

The following table presents the Company's assets and liabilities measured at fair value on a recurring basis as of September 30, 2017:

(in thousands)	Fair Value Measurements Using			
	Balance at September 30, 2017	Quoted Prices in Active Markets for Identical Items (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
Assets				
Cash equivalents	\$ 101	\$ 101	\$ —	\$ —
Restricted cash held as a certificate of deposit	324	324	—	—
Deposit held as a certificate of deposit	150	150	—	—
Total assets	\$ 575	\$ 575	\$ —	\$ —
Liabilities				
Warrant liability	\$ 1,889	\$ —	\$ —	\$ 1,889
Total liabilities	\$ 1,889	\$ —	\$ —	\$ 1,889

The following table presents the Company's assets and liabilities measured at fair value on a recurring basis as of December 31, 2016:

(in thousands)	Fair Value Measurements Using			
	Balance at December 31, 2016	Quoted Prices in Active Markets for Identical Items (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
Assets				
Cash equivalents	\$ 100	\$ 100	\$ —	\$ —
Restricted cash held as a certificate of deposit	324	324	—	—
Deposit held as a certificate of deposit	150	150	—	—
Total assets	\$ 574	\$ 574	\$ —	\$ —
Liabilities				
Warrant liability	\$ 1,446	\$ —	\$ —	\$ 1,446
Total liabilities	\$ 1,446	\$ —	\$ —	\$ 1,446

As a result of the fair value adjustment of the warrant liability, the Company recorded non-cash expense of \$281 thousand for the three-month period ended September 30, 2017, on an increase in the fair value of the warrants. For the nine-month period ended September 30, 2017, the Company recorded non-cash expense of \$501 thousand from an increase in the fair value of the warrants, in its consolidated statement of operations and comprehensive loss. See Note 10 for further discussion of the calculation of the fair value of the warrant liability.

(in thousands)	Warrant liability
Fair value of warrant liability at December 31, 2016	\$ 1,446
Increase in fair value at March 31, 2017	235
Fair value of warrant liability at March 31, 2017	1,681
Decrease in fair value at June 30, 2017	(15)
Fair market value of warrants transferred to equity upon exercise	(58)
Fair value of warrant liability at June 30, 2017	1,608
Increase in fair value at September 30, 2017	281
Fair value of warrant liability at September 30, 2017	<u>\$ 1,889</u>

NOTE 4. PREPAID EXPENSES AND OTHER CURRENT ASSETS

Prepaid expenses and other current assets consisted of the following:

(in thousands)	September 30, 2017	December 31, 2016
Prepaid outsourced sales team	\$ —	\$ 606
Prepaid sales rebate	492	658
Prepaid rent	—	120
Prepaid research and development services	100	123
Rent receivable	111	165
Prepaid insurance	67	31
Prepaid fleet leasing costs	75	—
Other	188	263
Total prepaid expenses and other current assets	<u>\$ 1,033</u>	<u>\$ 1,966</u>

NOTE 5. INVENTORY

Inventory consisted of the following:

(in thousands)	September 30, 2017	December 31, 2016
Raw materials and supplies	\$ 385	\$ 514
Finished goods	353	555
Less allowance for excess and obsolete inventory and lower of cost or estimate net realizable value adjustments	(139)	(196)
Total inventory, net	<u>\$ 599</u>	<u>\$ 873</u>

NOTE 6. PROPERTY AND EQUIPMENT

Property and equipment consisted of the following:

(in thousands)	September 30, 2017	December 31, 2016
Office and laboratory equipment	\$ 24	\$ 24
Furniture and fixtures	153	153
Computer equipment and software	339	170
Production equipment	105	105
Leasehold improvements	74	68
Total property and equipment, at cost	695	520
Less: accumulated depreciation and amortization	(203)	(149)
Total property and equipment, net	<u>\$ 492</u>	<u>\$ 371</u>

Depreciation and amortization expense was \$18 thousand and \$31 thousand for the three months ended September 30, 2017 and 2016, respectively, and \$54 thousand and \$98 thousand for the nine months ended September 30, 2017 and 2016, respectively.

In September 2016, the Company sub-leased its prior headquarters and determined that its leasehold improvements were impaired. This resulted in a \$66 thousand impairment charge recorded to general and administrative expense for the third quarter of 2016, and is reflected in the results for the three and nine months ended September 30, 2016.

In September 2016, the Company transferred title to a significant portion of its lab equipment in exchange for research and development services. As a result, the Company recognized a \$232 thousand gain on the sales of these assets, which was recorded to research and development expense for the third quarter of fiscal year 2016, and is reflected in the results for the three and nine months ended September 30, 2016.

NOTE 7. ACCRUED LIABILITIES

Accrued liabilities consisted of the following:

(in thousands)	September 30, 2017	December 31, 2016
Employee payroll and benefits	\$ 689	\$ 763
Severance/retirement pay	347	250
Inventory	64	75
Legal	212	—
Sales rebates	118	166
Outsourced sales team	—	333
Distributor fees and discounts	230	206
Customer deposit	540	—
Other	219	214
Total accrued liabilities	<u>\$ 2,419</u>	<u>\$ 2,007</u>

NOTE 8. RELATED PARTY NOTES PAYABLE

Beginning on December 30, 2015, the Company entered into a series of agreements pursuant to a loan (the “Loan”) facilitated by China Kington Asset Management Co. Ltd. (“China Kington”). In connection with the Loan, the Company issued five (5) promissory notes (the “Notes”) payable to Mr. Mark Sieczkarek, the Gail J. Maderis Revocable Trust, Dr. T. Alex McPherson, Mr. Jian Ping Fu, and Pioneer Pharma (Singapore) Pte. Ltd. (“Pioneer Singapore”) (collectively, the “Lenders”), loaning the Company an aggregate of \$3.0 million. Specifically, Mr. Sieczkarek, Chairman of the Board of Directors of the Company (the “Board”) and President and Chief Executive Officer of the Company, loaned the Company \$199 thousand; the Gail J. Maderis Revocable Trust, on behalf of Ms. Maderis, a Director of the Company, loaned the Company \$71 thousand; Dr. McPherson, a Director of the Company, loaned the Company \$20 thousand; Pioneer Singapore loaned the Company \$1.4 million; and Mr. Fu loaned the Company \$1.4 million. China Pioneer, with its wholly-owned subsidiary, Pioneer Hong Kong (which now holds all of the holdings of Pioneer Singapore due to an internal corporate reorganization) and Mr. Fu are the Company’s two largest stockholders. All Notes were issued on December 30, 2015 except the Note payable to Mr. Fu, which was issued on January 12, 2016.

The proceeds from the Notes were used for general corporate purposes. Minimum quarterly payments of principal and interest began on March 31, 2016 and were scheduled to continue on the last day of each of June, September, December and March thereafter. The entire principal sum and any and all accrued and unpaid interest was payable in full upon the Company’s next financing, subsequent to the dates of the Notes, but in no event would the term of the Loan extend beyond December 30, 2018, except for the loan by Mr. Fu, the term of which was to extend three (3) years from the date of issuance. The Notes carried an interest rate of six percent (6%) per annum and could be prepaid in whole or in part at any time without premium or penalty.

In connection with the Notes, China Kington agreed to act as collateral agent for the benefit of the Lenders, in accordance with the terms of a collateral agency and intercreditor agreement (the “Collateral Agency Agreement”), which was entered into on December 30, 2015 between China Kington and the Lenders. To secure the Notes, China Kington perfected a security interest in all tangible and intangible assets of the Company, pursuant to a security agreement (the “Security Agreement”) between the Company and China Kington, which was entered into on December 30, 2015.

As consideration to China Kington for facilitating the Loan, the Company agreed to the following: (1) the grant of a first right of refusal for China Kington (or its designee that shall be acceptable to the Company in its reasonable discretion) to lead financings for the Company for a period that is the shorter of two (2) years or the day that the Company’s cash flow has been equal to or greater than \$0 in each month for three (3) consecutive months, subject to certain limitations; (2) the participation of Mr. Sieczkarek as a Lender in the financing; (3) the participation of the Board, management and investors that the Board and management provide, to contribute an aggregate nine percent (9%) of funds in the Company’s next financing; (4) the appointment of two new members to the Company’s Board by China Kington; and (5) the Company’s agreement to reasonably cooperate with reasonable requests made by an auditor engaged, and paid for, by China Kington, subject to certain limitations. Upon the recommendation of China Kington, and after reviewing their relevant experiences and background and discussing the same, on January 26, 2016 the Board of Directors unanimously appointed Mr. Mijia “Bob” Wu and Mr. Xiaoyan “Henry” Liu to serve as Class I and Class III members of the Board, respectively. Because Bob Wu is the Managing Director of China Kington, China Kington became a related party upon his appointment to the Board.

Upon closing the first tranche of an \$11.8 million private placement on May 6, 2016 and by agreement with the Lenders, the Company used \$2.5 million of the proceeds from the private placement to repay a portion of the principal on the Notes issued to the Lenders.

Upon closing the second tranche of such \$11.8 million private placement on August 1, 2016, the Company repaid the remaining principal on the Notes in the amount of \$520 thousand.

As of September 30, 2017, and December 31, 2016, the outstanding amount under these Notes was zero.

NOTE 9. COMMITMENTS AND CONTINGENCIES

Operating Leases

Facility Leases

On August 24, 2016, we entered into an Office Lease (the "Lease"), pursuant to which we leased approximately 7,799 rentable square feet of real property located on the eleventh floor (Suite 1150) at 2000 Powell Street, Emeryville, California 94608 from KBSIII Towers at Emeryville, LLC (the "Landlord"), for our new principal executive offices. The expiration date of the Lease is February 28, 2022, unless earlier terminated pursuant to any provision of the Lease. The Company has the option to extend the term of the Lease for one five (5)-year period upon written notice to the Landlord due no earlier than twelve (12) months and no later than nine (9) months prior to the expiration of the Lease.

The Company still has a lease commitment for the laboratory facilities and office space at Suite 550, EmeryStation North Building, 5980 Horton Street, Emeryville, California ("EmeryStation") under an operating lease which will expire on October 21, 2020. On July 11, 2016, the Company entered into a Sublease Agreement to sublease all 16,465 rentable square feet of real property at EmeryStation (the "Sublease Agreement"). The commencement date under the Sublease Agreement was September 8, 2016. The expiration date of the Sublease Agreement is October 21, 2020, as amended (while the expiration date of the Company's master lease for the EmeryStation premises is October 31, 2020), unless earlier terminated pursuant to the Company terminating its master lease for EmeryStation or the Sublease Agreement.

Rent expense, net for the above two facility leases was approximately \$97 thousand and \$360 thousand for the three months ended September 30, 2017 and 2016, respectively, and \$293 thousand and \$873 thousand, net for the nine months ended September 30, 2017 and 2016, respectively.

The Company's monthly rent payments fluctuate under the various leases and sublease agreements. In accordance with GAAP, the Company recognizes rent expense on a straight-line basis. The Company records deferred rent and sublease future minimum payments receivable for the difference between the amounts paid and recorded as expense.

Vehicle Fleet Leases

During the nine months ended September 30, 2017, the Company leased 54 vehicles under a master fleet lease agreement. Each lease is for a period of 36 months, which commenced upon the delivery of the vehicle. As of September 30, 2017, the aggregate monthly lease payment for all 54 vehicles is \$14 thousand, including a management fee of \$15 per vehicle. In addition, the Company made an initial payment of \$3 thousand per vehicle, which it is amortizing over the 36 month lease period.

Lease expense, net, for the vehicle fleet was approximately \$28 thousand and zero for the three months ended September 30, 2017 and 2016, respectively, and \$66 thousand and zero for the nine months ended September 30, 2017 and 2016, respectively.

Directors and Officers Indemnification

As permitted under Delaware law and in accordance with its bylaws, the Company indemnifies its officers and directors for certain events or occurrences while the officer or director is or was serving at the Company's request in such capacity. The term of the indemnification period is for the officer's or director's lifetime. The maximum amount of potential future indemnification is unlimited; however, the Company has a director and officer insurance policy that limits its exposure and may enable it to recover a portion of any future payments. The Company believes the fair value of these indemnification agreements is minimal. Accordingly, it has not recorded any liabilities for these agreements as of September 30, 2017.

In the normal course of business, the Company provides indemnification of varying scope under its agreements with other companies, typically its clinical research organizations, investigators, clinical sites, suppliers and others. Pursuant to these agreements, it generally indemnifies, holds harmless, and agrees to reimburse the indemnified parties for losses suffered or incurred by the indemnified parties in connection with use or testing of its products or product candidates or with any U.S. patent or any copyright or other intellectual property infringement claims by any third party with respect to its products. The term of these indemnification agreements is generally perpetual. The potential future payments the Company could be required to make under these indemnification agreements is unlimited. Historically, costs related to these indemnification provisions have been immaterial. The Company also maintains various liability insurance policies that limit its exposure. As a result, it believes the fair value of these indemnification agreements is minimal. Accordingly, the Company has not recorded any liabilities for these agreements as of September 30, 2017.

Legal Matters

From time to time, the Company may be involved in various legal proceedings arising in the ordinary course of business. On December 19, 2016, Liam Kozma ("Plaintiff"), claiming to be a stockholder of the Company, filed a putative derivative action (the "Complaint") against the Company and the Board of Directors (the "Board") in the United States District Court for the District of Delaware (the "Court") alleging that the Board breached its fiduciary duty and made materially false and misleading statements in the Company's proxy statement filed with the SEC on April 18, 2016, as supplemented on May 17, 2016 (collectively, the "2016 Proxy Statement"), related to the Company's amendment of the 2007 Omnibus Incentive Plan (the "Plan"). The parties have agreed to settle the litigation conditioned upon approval by the Court. The Court preliminarily approved the settlement by order dated September 26, 2017, and the Court has set a final settlement hearing for December 15, 2017. The Company has accrued an amount up to its insurance deductible and does not believe this or any other matters will have a material adverse effect on our financial position.

NOTE 10. WARRANT LIABILITY

In July 2011, the Company sold common stock and warrants in a registered direct financing. As part of this transaction, 139,520 warrants were issued with an exercise price of \$33.25 and were exercisable from January 1, 2012 to July 5, 2016. The terms of the warrants require registered shares to be delivered upon each warrant's exercise and also require possible cash payments to the warrant holders (in lieu of the warrant's exercise) upon specified fundamental transactions involving the Company's common stock, such as in an acquisition of the Company. Under ASC 480, *Distinguishing Liabilities from Equity*, the Company's ability to deliver registered shares upon an exercise of the warrants and the Company's potential obligation to cash-settle the warrants if specified fundamental transactions occur are deemed to be beyond the Company's control. The warrants contain a provision according to which the warrant holder would have the option to receive cash, equal to the Black Scholes fair value of the remaining unexercised portion of the warrant, as cash settlement in the event that there is a fundamental transaction (contractually defined to include various merger, acquisition or stock transfer activities). Due to this provision, ASC 480 requires that these warrants be classified as liabilities. The fair values of these warrants have been determined using the Lattice valuation model, and the changes in the fair value are recorded in the consolidated statement of operations and comprehensive loss. The Lattice model provides for assumptions regarding volatility and risk-free interest rates within the total period to maturity. In addition, after January 5, 2012, and if the closing bid price per share of the common stock in the principal market equals or exceeds \$66.50 for any ten trading days (which do not have to be consecutive) in a period of fifteen consecutive trading days, the Company has the right to require the exercise of one-third of the warrants then held by the warrant holders.

In October 2015, the holders of all warrants issued pursuant to the Company's securities purchase agreement dated March 3, 2015 (the "2015 Securities Purchase Agreement") agreed to reduce the length of notice required to such investors prior to the Company's issuance of new securities from twenty business days to two business days, for the remainder of such investors' pre-emptive right period (which expired March 3, 2016). The Company entered into these agreements to enable it to expeditiously raise capital in the October 2015 Offering (as described below) and future offerings. As consideration for these agreements, the Company amended certain provisions of both the warrants with a 15-month term (the "Short-Term Warrants") and warrants with a five-year term (the "Long-Term Warrants") issued pursuant to the 2015 Securities Purchase Agreement (together, the "March 2015 Warrants") and the warrants issued pursuant to the placement agent agreement dated June 29, 2011 (the "July 2011 Warrants"). Specifically, the amendments decreased the exercise price for both the March 2015 Warrants and the July 2011 Warrants to \$5.00 per share. In addition, the amendments extended the exercise expiration date for the Short-Term Warrants and the July 2011 Warrants to March 6, 2020. A price protection provision also was added to both the July 2011 Warrants and March 2015 Warrants, such that if the Company subsequently sells or otherwise disposes of Company common stock at a lower price per share than \$5.00 or any securities exchangeable for common stock with a lower exercise price than \$5.00, the exercise price of such warrants will be reduced to that lower price.

In October 2015, the Company also entered into an underwriting agreement with Roth Capital Partners, LLC, relating to the public offering and sale of up to (i) 492,000 shares of the Company's common stock; and (ii) warrants to purchase up to 442,802 shares of the Company's common stock (the "October 2015 Warrants") with an exercise price of \$5.00 per share (the "October 2015 Offering"). The shares of common stock and warrants were issued separately. Each warrant was exercisable immediately upon issuance and will expire 60 months from the date of issuance. The price to the public in the October 2015 Offering was \$5.00 per share of common stock and related warrant. The net proceeds to the Company were approximately \$2.1 million after deducting underwriting discounts and commissions and offering expenses.

In February 2016, the strike price of the July 2011, March 2015 and October 2015 warrants was reduced to \$1.81 per share, pursuant to the price protection provisions in such warrants, because the Company sold common stock to Mr. Jian Ping Fu at that price.

The key assumptions used to value the July 2011 Warrants as of September 30, 2017 and December 31, 2016 were as follows:

Assumption	As of	
	September 30, 2017	December 31, 2016
Expected price volatility	103.00%	102.00%
Expected term (in years)	2.43	3.18
Risk-free interest rate	1.54%	1.51%
Dividend yield	0.00%	0.00%
Weighted-average fair value of warrants	\$ 3.51	\$ 2.55

In March 2015, the Company issued both the Short-Term Warrants (\$15.00 per share exercise price) and the Long-Term Warrants (\$16.25 per share exercise price). At that time, the Company determined that these warrants qualified for equity accounting and did not contain embedded derivatives that required bifurcation. After the Company's agreement to modify the terms of the March 2015 Warrants and July 2011 Warrants in October 2015, the Company evaluated the change in terms of the March 2015 Warrants and noted that the change in terms resulted in liability classification of both the Short-Term and Long-Term Warrants. The March 2015 Warrants were re-issued and valued as of October 27, 2015 at a total of \$1.8 million with the new terms, and a modification expense was recorded at the difference between the fair value of the warrants on their new terms after modification as of October 27, 2015 and the fair value of the warrants on their original terms prior to modification as of October 27, 2015. The fair values of these warrants have been determined using the Lattice valuation model, and the changes in the fair value are recorded in the consolidated statement of operations and comprehensive loss.

The key assumptions used to value the Short-Term Warrants as of September 30, 2017 and December 31, 2016 were as follows:

Assumption	As of	
	September 30, 2017	December 31, 2016
Expected price volatility	103.00%	102.00%
Expected term (in years)	2.43	3.18
Risk-free interest rate	1.54%	1.51%
Dividend yield	0.00%	0.00%
Weighted-average fair value of warrants	\$ 3.05	\$ 2.47

The key assumptions used to value the Long-Term Warrants as of September 30, 2017 and December 31, 2016 were as follows:

Assumption	As of	
	September 30, 2017	December 31, 2016
Expected price volatility	103.00%	102.00%
Expected term (in years)	2.43	3.18
Risk-free interest rate	1.54%	1.51%
Dividend yield	0.00%	0.00%
Weighted-average fair value of warrants	\$ 3.51	\$ 2.55

As noted above, the Company issued warrants in connection with the October 2015 Offering. The Company evaluated the terms of the October 2015 Warrants and noted that under ASC 480, the Company's potential obligation to cash-settle the warrants if specified fundamental transactions occur are deemed to be beyond the Company's control. Due to this provision, ASC 480 requires that these warrants be classified as liabilities. The fair values of these warrants have been determined using the Lattice valuation model, and the changes in the fair value are recorded in the consolidated statement of operations and comprehensive loss. The fair value of the warrants at issuance on October 27, 2015 was \$1.3 million.

The key assumptions used to value the October 2015 warrants as of September 30, 2017, and December 31, 2016 were as follows:

Assumption	As of	
	September 30, 2017	December 31, 2016
Expected price volatility	99.00%	96.00%
Expected term (in years)	3.08	3.83
Risk-free interest rate	1.63%	1.66%
Dividend yield	0.00%	0.00%
Weighted-average fair value of warrants	\$ 3.62	\$ 2.60

During the third quarter of 2016, a total of 3,613,284 warrants to purchase 3,613,284 shares of common stock were exercised related to warrants issued during July 2011, March 2015 and October 2015, resulting in gross proceeds of \$6.9 million. Upon exercise, the warrant liability associated with these warrants was adjusted to its fair value as of the date of exercise of \$1.6 million, with any change in fair value recorded in the consolidated statement of operations and comprehensive loss. The \$1.6 million fair value was subsequently transferred to equity as of the date of exercise.

During the fourth quarter of 2016, a total of 363,523 warrants to purchase 363,523 shares of common stock were exercised related to the October 2011, November 2015 and December 2015 warrants resulting in gross proceeds of \$0.9 million. Upon exercise, the warrant liability associated with these warrants was adjusted to its fair value as of the date of exercise of \$0.5 million, with any change in fair value recorded in the consolidated income statement and comprehensive loss. The \$0.5 million fair value was subsequently transferred to equity as of the date of exercise.

During the second quarter of 2017, a total of 21,000 warrants to purchase 21,000 shares of common stock were exercised related to the March 2015 Short-Term and Long-Term warrants resulting in gross proceeds of \$38 thousand. Upon exercise, the warrant liability associated with these warrants was adjusted to its fair value as of the date of exercise of \$58 thousand, with any change in fair value recorded in the consolidated income statement and comprehensive loss. The \$58 thousand fair value was subsequently transferred to equity as of the date of exercise.

The details of the outstanding warrant liability as of September 30, 2017, were as follows:

Shares and dollars in thousands	Shares	Warrant Liability
July 2011 Warrants	49	\$ 174
Long-Term Warrants	96	337
Short-Term Warrants	115	349
October 2015 Warrants	284	1,029
	544	\$ 1,889

NOTE 11. STOCKHOLDERS' EQUITY (DEFICIT)

Amendments to Articles of Incorporation—Reverse Stock Split

Effective December 18, 2015, the Company amended its Certificate of Incorporation to affect a 1-for-25 reverse split of its outstanding common stock (the “Reverse Stock Split”). The Reverse Stock Split was approved by the Company’s stockholders on December 11, 2015. The accompanying financial statements and related notes give retroactive effect to this Reverse Stock Split.

Preferred Stock

Under the Company’s amended articles of incorporation, the Company is authorized to issue up to 5,000,000 shares of preferred stock in such series and with such rights and preferences as may be approved by the Board of Directors. As of September 30, 2017 and December 31, 2016, there were no shares of Company preferred stock outstanding.

Common Stock

In February 2016, the Company entered into three securities purchase agreements (the “Purchase Agreements”) for the sale of an aggregate of 1,518,567 shares of the Company’s common stock (the “Common Stock”) to accredited investors for a total of \$2.8 million. The Company entered into the first purchase agreement with Mr. Jian Ping Fu (the “Fu Agreement”), pursuant to which the Company agreed to issue and sell to Mr. Fu 696,590 shares of Common Stock, at a per share price of \$1.81, which was a five percent (5%) discount to the closing price of the Common Stock on February 16, 2016, the date of the Fu Agreement. The Company entered into the second purchase agreement with Pioneer Singapore (the “Pioneer Agreement”), pursuant to which the Company agreed to issue and sell to Pioneer Singapore 696,590 shares of Common Stock, at a per share price of \$1.91, which was the closing price of the Common Stock on February 16, 2016 with no discount. The Company entered into a third purchase agreement with Mark M. Sieczkarek (the “Sieczkarek Agreement”), pursuant to which the Company agreed to issue and sell to Mr. Sieczkarek 125,387 shares of Common Stock, at a per share price of \$1.91, which was the closing price of the Common Stock on February 16, 2016 with no discount. The Common Stock issued by the Company pursuant to the Purchase Agreements has not been registered under the Securities Act and may not be offered or sold in the United States absent registration or an applicable exemption from registration requirements.

China Kington Asset Management Co. Ltd. served as placement agent in exchange for a commission equal to six percent (6%) of the gross proceeds received by the Company upon closing pursuant to the purchases by Pioneer Singapore and Mr. Fu. The amount of such commission was approximately \$155 thousand.

On April 4, 2016, the Company entered into a securities purchase agreement (the “Securities Purchase Agreement”) for the sale of an aggregate 6,173,299 shares of Common Stock, par value \$0.01 per share and warrants (the “April 2016 Warrants”) exercisable for 3,086,651 Shares to accredited investors for an aggregate purchase price of \$11.8 million (the “Private Placement”). The warrants have a 4-year term and an exercise price of \$1.91, callable by the Company if the closing price of the Common Stock, as reported on the NYSE American, is \$4.00 or greater for five sequential trading days. The Private Placement closed in two tranches, the first of which closed on May 5, 2016, resulting in proceeds to the Company of \$7.8 million (the “Primary Closing”), and the second of which closed on August 1, 2016, resulting in proceeds of \$4.0 million to the Company (the “Secondary Closing”). In the Primary Closing, the Company issued 4,079,058 shares of Common Stock and April 2016 Warrants exercisable for 2,039,530 shares of Common Stock. In the Secondary Closing, the Company issued 2,094,241 shares of Common Stock and April 2016 Warrants exercisable for 1,047,121 shares of Common Stock. Both the Primary Closing and the Secondary Closing were subject to the same terms, containing customary representations, warranties and agreements by the Company, customary conditions to closing, indemnification obligations of the Company and the purchasers and other obligations of the parties and termination provisions.

China Kington Asset Management Co. Ltd. served as placement agent in exchange for a commission equal to six percent (6%) of the gross proceeds received by the Company upon closing pursuant to the purchases by certain investors. The amount of such commission was approximately \$618 thousand.

Also on April 4, 2016, the Company entered into a separate registration rights agreement (the “Registration Rights Agreement”) with Messrs. Andros and Geckler, Dr. Rider, and the Children’s Brain Disease Foundation (the “Participating Purchasers”), pursuant to which the Company agreed to file as many registration statements with the SEC as may be necessary to cover the resale of the shares and the April 2016 Warrants held by the Participating Purchasers, to use its commercially reasonable efforts to have all such registration statements declared effective within the time frames set forth in the Securities Purchase Agreement and the Registration Rights Agreement, and to keep such registration statements effective for the terms defined therein. The Company filed such Registration Statement to cover the resale of the shares and April 2016 Warrants held by the Participating Purchasers with the SEC on June 9, 2016 and received effectiveness of such Registration Statement on June 20, 2016 (Registration Number 333-211943).

During the third quarter of 2016, the Company recorded \$6.6 million in net proceeds upon the exercise of 3,613,284 of the Company’s warrants for 3,613,284 shares of the Company’s Common Stock, including all of the warrants issued in May 2016 and August 2016. As consideration for the facilitation of the exercise of certain of these warrants held by non-U.S. citizens domiciled outside of the United States, China Kington received a six percent (6%) commission on the aggregate proceeds to the Company pursuant to such exercises. The amount of such commission was approximately \$338 thousand.

During the fourth quarter of 2016, the Company recorded \$0.9 million in net proceeds upon the exercise of 363,523 of the Company’s warrants for 363,523 shares of the Company’s Common Stock. As consideration for the facilitation of the exercise of certain of these warrants held by non-U.S. citizens domiciled outside of the United States, China Kington received a six percent (6%) commission on the aggregate proceeds to the Company pursuant to such exercises. The amount of such commission was approximately \$32 thousand.

Stock Warrants

In February 2016, the strike prices of the July 2011, March 2015 Short-Term and Long-Term, and October 2015 warrants were reduced to \$1.81 per share, pursuant to the price protection provisions in such warrants, because the Company sold common stock to Mr. Jian Ping Fu at that price.

In May 2016, the Company issued 2,039,530 warrants at the Primary Closing pursuant to the Securities Purchase Agreement. Please see the preceding subsection, “Common Stock,” for further details.

In August 2016, the Company issued 1,047,121 warrants at the Secondary Closing pursuant to the Securities Purchase Agreement. Please see the preceding subsection, “Common Stock,” for further details.

Effective September 29, 2016, the Company modified the exercise price of all warrants issued pursuant to the securities purchase agreement, dated May 18, 2015, from \$19.50 to \$3.15 per share, which reflected a discount of approximately sixteen percent (16%) to the closing price of the Company’s Common Stock on September 27, 2016. The Company has estimated the value of warrant modification as of the date of the modification by applying the Black-Scholes-Merton option pricing model using the single-option valuation approach. As a result of this modification, the Company recorded a non-cash loss of \$270 thousand in general and administrative expense in the consolidated statement of operation and comprehensive loss.

The details of all outstanding warrants as of September 30, 2017, were as follows:

(in thousands, except for exercise price)	Warrants	Weighted-Average Exercise Price
Warrants outstanding December 31, 2016	565	\$ 1.81
Warrants granted	—	—
Warrants exercised	(21)	1.81
Warrants expired	—	—
Warrants outstanding September 30, 2017	544	\$ 1.81

NOTE 12. EQUITY-BASED COMPENSATION

Equity Compensation Plans

In October 2007, the Company adopted the 2007 Omnibus Incentive Plan (the “2007 Plan”) to provide for the granting of equity awards, such as stock options, unrestricted and restricted common stock, stock units, dividend equivalent rights, and stock appreciation rights to employees, directors and outside consultants, as determined by the Board of Directors. At the inception of the 2007 Plan, 40,000 shares were reserved for awards under the 2007 Plan.

For the years from 2009 to 2012, the number of shares of common stock authorized for awards under the 2007 Plan increased annually in an amount equal to the lesser of (a) 40,000 shares; (b) 4% of the number of shares of the Company’s common stock outstanding on the last day of the preceding year; or (c) such lesser number as determined by the Board. Accordingly, an additional 40,000, 37,427, and 37,207 shares of common stock were authorized for awards under the 2007 Plan in January 2012, 2011 and 2010, respectively. Beginning in 2013, the shareholders voted to remove the 40,000 share cap and the 2007 Plan’s shares authorized for awards increased annually by 4% of the number of shares of the Company’s common stock outstanding on the last day of the preceding year. Accordingly, an additional 32,646 and 59,157 shares of common stock were authorized for awards under the 2007 Plan in January 2014 and 2013, respectively. On March 30, 2015, the Company filed a registration statement to add an additional 82,461 shares to the 2007 Plan’s shares authorized for awards. In January 2016, the Company added 139,449 shares to the 2007 Plan’s shares authorized for awards, per the 2007 Plan’s evergreen provision. On May 26, 2016, the stockholders of the Company approved an amendment to the 2007 Plan to increase the number of shares of Company common stock authorized for awards thereunder by 1,124,826 shares. In January 2017, the Company added 610,774 shares to the 2007 Plan’s shares authorized for awards, per the 2007 Plan’s evergreen provision. As a result of the foregoing, the aggregate number of shares authorized for awards under the 2007 Plan was 2,318,486 shares, prior to its expiration on March 15, 2017 (after taking into account prior awards under the 2007 Plan).

Upon expiration of the 2007 Plan, new awards cannot be issued pursuant to the 2007 Plan, but awards outstanding as of its March 15, 2017 plan expiration date will continue to be governed by its terms. Under the terms of the 2007 Plan, the exercise price of incentive stock options may not be less than 100% of the fair market value of the common stock on the date of grant and, if granted to an owner of more than 10% of the Company’s stock, then not less than 110% of the fair market value of the common stock on the date of grant. Stock options granted under the 2007 Plan expire no later than ten years from the date of grant. Stock options granted to employees generally vest over four years, while options granted to directors and consultants typically vest over a shorter period, subject to continued service.

In March 2017, the Company adopted the 2017 Omnibus Incentive Plan (the “2017 Plan”), which was approved by shareholders on June 2, 2017, to provide for the granting of equity awards, such as nonqualified stock options (“NQSOs”), incentive stock options (“ISOs”), restricted stock, performance shares, stock appreciation rights (“SARs”), restricted stock units (“RSUs”) and other share-based awards to employees, directors, and consultants, as determined by the Board of Directors. The new 2017 Plan will not affect awards previously granted under NovaBay’s prior incentive plan, the 2007 Plan. The 2017 Plan allows for awards of up to 2,318,486 shares of the Company’s common stock, plus an automatic annual increase in the number of shares authorized for awards on the first day of each of the Company’s fiscal years beginning January 1, 2018 through January 1, 2027 equal to (i) four percent of the number of shares of Common Stock outstanding on the last day of the immediately preceding fiscal year or (ii) such lesser number of shares of Common Stock than provided for in Section 4(a)(i) of the 2017 Plan as determined by the Board. As of September 30, 2017, there were 1,486,028 shares available for future awards under the 2017 Plan.

Under the terms of the 2017 Plan, the exercise price of NQSOs, ISOs and SARs may not be less than 100% of the fair market value of the common stock on the date of grant and, if ISOs are granted to an owner of more than 10% of the Company’s stock, then not less than 110% of the fair market value of the common stock on the date of grant. The term of awards will not be longer than ten years, or in the case of ISOs, not longer than five years with respect to holders of more than ten percent of the Company’s stock. Stock options granted to employees generally vest over four years, while options granted to directors and consultants typically vest over a shorter period, subject to continued service. The Company issues new shares to satisfy option exercises under the 2007 and 2017 plans.

Stock Option Summary

The following table summarizes information about the Company’s stock options outstanding as of September 30, 2017, and activity during the nine-month period then ended:

(in thousands, except years and per share data)	Options	Weighted-Average Exercise Price	Weighted-Average Remaining Contractual Life (years)	Aggregate Intrinsic Value
Outstanding at December 31, 2016	1,489	\$ 8.38	8.7	\$ 702
Options granted	1,494	\$ 2.99		
Restricted stock units granted	39	\$ —		
Options exercised	(51)	\$ 2.50		
Restricted stock units vested	(31)	\$ —		
Options forfeited/cancelled	(47)	\$ 27.45		
Outstanding at September 30, 2017	<u>2,893</u>	\$ 5.37	8.8	\$ 4,564
Vested and expected to vest at September 30, 2017	<u>2,832</u>	\$ 5.42	8.8	\$ 4,459
Vested at September 30, 2017	<u>1,236</u>	\$ 8.63	8.1	\$ —
Exercisable at September 30, 2017	<u>1,236</u>	\$ 8.63	8.1	\$ —

The aggregate intrinsic value is calculated as the difference between the exercise price of the underlying stock option awards and the closing market price of the Company’s common stock as quoted on the NYSE American as of September 30, 2017 for options that have a quoted market price in excess of the exercise price. There were 51 thousand stock option awards exercised for the three and nine months ended September 30, 2017 for which the Company received cash payments of \$129 thousand. The aggregate intrinsic value of stock option awards exercised was \$108 thousand for the nine months ended September 30, 2017. There were no stock option awards exercised for the three and nine months ended September 30, 2016. Accordingly, the Company received no cash payments for the exercise of stock options during the three and nine months ended September 30, 2016.

As of September 30, 2017, total unrecognized compensation cost related to unvested stock options and restricted stock was approximately \$2.5 million. This amount is expected to be recognized as stock-based compensation expense in the Company’s consolidated statements of operations and comprehensive loss over the remaining weighted average vesting period of 2.32 years.

Stock Option Awards to Employees and Directors

The Company grants options to purchase common stock to its employees and directors at prices equal to or greater than the market value of the stock on the dates the options are granted. The Company has estimated the value of stock option awards as of the date of grant by applying the Black-Scholes-Merton option pricing model using the single-option valuation approach. The application of this valuation model involves assumptions that are judgmental and subjective in nature. See Note 2 for a description of the accounting policies that the Company applied to value its stock-based awards.

During the nine months ended September 30, 2017 and 2016, the Company granted options to purchase an aggregate of 1,407,000 and 1,110,000 shares of common stock, respectively, to employees and directors.

The weighted-average assumptions used in determining the value of options are as follows:

Assumption	Nine Months Ended September 30,	
	2017	2016
Expected price volatility	87.76%	84.00%
Expected term (in years)	6.90	7.03
Risk-free interest rate	2.11%	1.56%
Dividend yield	0.00%	0.00%
Weighted-average fair value of options granted during the period	\$ 2.30	\$ 2.03

Expected Price Volatility—This is a measure of the amount by which the common stock price has fluctuated or is expected to fluctuate. The computation of expected volatility was based on the historical volatility of the Company’s common stock and the common stock of comparable companies from a representative peer group selected based on industry and market capitalization data.

Expected Term—This is the period of time over which the options granted are expected to remain outstanding. The expected life assumption is based on the Company’s historical data.

Risk-Free Interest Rate—This is the U.S. Treasury rate for the week of the grant having a term approximating the expected life of the option.

Dividend Yield—The Company has not made any dividend payments, nor does it have plans to pay dividends in the foreseeable future.

Forfeitures are estimated at the time of grant and reduce compensation expense ratably over the vesting period. This estimate is adjusted periodically based on the extent to which actual forfeitures differ, or are expected to differ, from the previous estimate.

During the nine months ended September 30, 2017, the Company did not issue shares of common stock to employees. Additionally, during the nine months ended September 30, 2016, the Company issued 64,000 shares of common stock to employees.

For the three months ended September 30, 2017 and 2016, the Company recognized stock-based compensation expense of \$779 thousand and \$610 thousand, respectively, for stock-based awards to employees and directors. For the nine months ended September 30, 2017 and 2016, the Company recognized stock-based compensation expense of \$2,379 thousand and \$1,022 thousand, respectively, for stock based awards to employees and directors.

During the second and third quarters of 2016, the Company modified stock options held by two of its directors, Dr. Radaelli and Dr. McPherson, each of whom resigned as directors of the Company, effective May 6, 2016 and August 24, 2016, respectively. All outstanding stock options held by Dr. Radaelli and Dr. McPherson became fully vested upon retirement, and the option exercise period for Dr. Radaelli and Dr. McPherson was extended from three months to four years, calculated from each former director’s respective date of resignation. Options with an expiration date prior to the end of the exercise period maintained the same expiration date. In connection with the stock option modification, the Company recognized stock-based compensation expense of \$58 thousand.

In July 2017, Mr. Paulson announced his retirement from his position as CFO of the Company as of December 31, 2017. As part of his employment agreement, the Company modified his stock options, effective upon his retirement. All outstanding stock options held by Mr. Paulson will become fully vested upon retirement, and the option exercise period will be extended from three months to three years, calculated from the date of retirement. Options with an expiration date prior to the end of the exercise period will maintain the same expiration date. As this agreement was entered into during the third quarter of 2017, and Mr. Paulson agrees to continue providing service through December 31, 2017, the Company will record stock-based compensation expense in connection with the stock option modification in both the third and fourth quarters of 2017. In connection with the stock option modification, the Company recognized stock-based compensation expense of \$243 thousand during the three months ended September 30, 2017.

Stock-Based Awards to Non-Employee Consultants

During the nine months ended September 30, 2017 and 2016, the Company granted options to purchase an aggregate of 86,000 and 89,000 shares of common stock, respectively, to non-employee consultants in exchange for advisory and consulting services. The stock options are recorded at their fair value on the measurement date and recognized over the respective service or vesting period. The fair value of the stock options granted was calculated using the Black-Scholes-Merton option pricing model based upon the following assumptions:

Assumption	Nine Months Ended September 30,	
	2017	2016
Expected price volatility	87.41%	88.00%
Expected term (in years)	10.00	9.99
Risk-free interest rate	2.27%	1.61%
Dividend yield	0.00%	0.00%
Weighted-average fair value of options granted during the period	\$ 2.40	\$ 2.29

The Company granted restricted stock to non-employee consultants totaling 39,000 and 10,000 shares of common stock in the nine months ended September 30, 2017 and 2016, respectively, in exchange for advisory and consulting services.

For the three months ended September 30, 2017 and 2016, the Company recognized stock-based compensation expense of \$161 thousand and \$100 thousand, respectively, related to non-employee consultant stock and option grants. For the nine months ended September 30, 2017 and 2016, the Company recognized stock-based compensation expense of \$250 thousand and \$205 thousand, respectively, related to non-employee consultant stock and option grants.

In November 2015, Dr. Ron Najafi resigned from his position as President and CEO of the Company. As part of his separation agreement, in December 2016, the Company paid him a portion of the amount due under the separation agreement via a combination of registered shares and cash during fiscal year 2016. The expense related to this separation agreement was accrued for and expensed in the year ended December 31, 2015, and the shares were issued to him via fully vested registered stock in December 2016. In January 2017, the remaining portion of the amount due under the separation agreement was paid via a combination of registered shares and cash.

In March 2016, Mr. Roy Wu left the Company as Senior Vice President of Business Development. As part of his separation agreement, in March 2016, the Company paid him a combination of stock and cash. The expense related to this separation agreement was accrued for and expensed in the year ended December 31, 2015 based upon the known terms, and the shares were issued to him via fully vested restricted stock in March 2016.

Summary of Stock-Based Compensation Expense

A summary of the stock-based compensation expense included in the consolidated statement of operations and comprehensive loss for the options and common stock discussed above is as follows. The amounts that would have been charged to cost of goods sold are not material and have been included in general and administrative expense below.

(in thousands)	Three Months Ended September 30,		Nine Months Ended September 30,	
	2017	2016	2017	2016
Research and development	\$ 51	\$ 63	\$ 100	\$ 142
Sales and Marketing	153	62	247	113
General and administrative	736	585	2,281	972
Total stock-based compensation expense	<u>\$ 940</u>	<u>\$ 710</u>	<u>\$ 2,628</u>	<u>\$ 1,227</u>

Since the Company continues to operate at a net loss, it does not expect to realize any current tax benefits related to stock options.

NOTE 13. LICENSE, COLLABORATION AND DISTRIBUTION AGREEMENTS

Virbac Agreement

In April 2012, the Company entered into a feasibility and option agreement with Virbac, a global animal health company, for the development and potential commercialization of Aganocides for a number of veterinary uses for companion animals. Under the terms of the agreement, NovaBay received an upfront payment and is entitled to additional support for research and development.

In April 2013, the Company entered into a collaboration and license agreement with Virbac. Under this new agreement, Virbac acquired exclusive worldwide rights to develop the Company's proprietary compound, auriclosene (NVC-422), for global veterinary markets for companion animals. The Company received an option exercise fee and may receive future development and pre-commercial milestone payments as a result of the collaboration.

No revenue was recognized in the nine months ended September 30, 2017 or 2016 related to these agreements.

The Company had deferred revenue balances of \$246 thousand at each of September 30, 2017 and December 31, 2016 related to these agreements, which consisted of the unamortized balances on the upfront technology and access fee and the support for ongoing research and development.

NeuroPhase Distribution Agreements

In January 2012, the Company entered into a distribution agreement with China Pioneer Pharma Holdings, Ltd. ("China Pioneer"), a Shanghai-based company that markets high-end pharmaceutical products into China and an affiliate of Pioneer Singapore, for the commercialization of NeuroPhase in this territory. Under the terms of the agreement, NovaBay received an upfront payment of \$312,500. NovaBay also received \$312,500 in January 2013, related to the submission of the first marketing approval for the product to the China Food and Drug Administration ("CFDA"). The deferred revenue was recognized as the purchase discounts were earned, with the remaining deferred revenue recognized ratably over the product distribution period. During the year ended December 31, 2014, NovaBay received \$625,000 upon receipt of a marketing approval of the product from the CFDA.

In September 2012, the Company entered into two agreements with Pioneer: (1) an international distribution agreement ("Distribution Agreement") and (2) a unit purchase agreement ("Purchase Agreement"). These agreements were combined and accounted for as one arrangement with one unit of accounting for revenue recognition purposes.

Pursuant to the terms of the Distribution Agreement, Pioneer has the right to distribute NeuroPhase, upon a marketing approval from a Regulatory Authority, in certain territories in Asia (other than China). Upon execution of the Distribution Agreement, the Company received an upfront payment, which was recorded as deferred revenue. Pioneer is also obligated to make certain additional payments to the Company upon receipt of the marketing approval. The Distribution Agreement further provides that Pioneer is entitled to a cumulative purchase discount not to exceed \$500,000 upon the purchase of NeuroPhase product, payable in NovaBay unregistered restricted common stock.

Pursuant to the Purchase Agreement, the Company also received \$2.5 million from Pioneer for the purchase of restricted units (comprising one share of common stock and a warrant for the purchase of one share of common stock). The unit purchase was completed in two tranches: (1) 800,000 units in September 2012; and (2) 1,200,000 units in October 2012, with both tranches at a purchase price of \$1.25 per unit. The fair value of the total units sold was \$3.5 million, based upon the trading price of our common stock on the dates the units were purchased, and the fair value of the warrants based on the Black-Scholes Merton option pricing model. Because the aggregate fair value of the units on the dates of purchase exceeded the \$2.5 million in proceeds received from the unit purchase by approximately \$1 million, we reallocated \$600,000 from deferred revenue to stockholders' equity as consideration for the purchase of the units.

In December 2013, the Company announced it had expanded its NeuroPhase commercial partnership agreement with Pioneer. The expanded agreement includes licensing rights to two new products, Avenova and CelleRx, which were developed internally by NovaBay. The expanded partnership agreement covers the commercialization and distribution of these products in China and 11 countries in Southeast Asia.

Revenue has been recognized under these agreements as follows:

(in thousands)	Three Months Ended September 30,		Nine Months Ended September 30,	
	2017	2016	2017	2016
Amortization of upfront technology access fee	\$ 6	\$ 6	\$ 19	\$ 64
Product revenue	-	-	2	236
Total revenue recognized	\$ 6	\$ 6	\$ 21	\$ 300

The Company had a deferred revenue balance of \$1.0 million at each of September 30, 2017 and December 31, 2016 related to these agreements, which consisted of the unamortized balances on the upfront technology and access fee and the support for ongoing research and development.

On February 7, 2012, the Company entered into a distribution agreement with Integrated Healing Technologies, LLC (“IHT”) to distribute NeuroPhase. NovaBay received an upfront payment of \$750 thousand.

Revenue has been recognized under this agreement as follows:

(in thousands)	Three Months Ended September 30,		Nine Months Ended September 30,	
	2017	2016	2017	2016
Amortization of upfront technology access fee	\$ 4	\$ 5	\$ 25	\$ 21
Product revenue	117	164	332	332
Total revenue recognized	\$ 121	\$ 169	\$ 357	\$ 353

The Company had deferred revenue balances of \$628 thousand and \$653 thousand at September 30, 2017 and December 31, 2016, respectively, related to this agreement, which consisted of the unamortized balance on the upfront technology and access fee and the support for ongoing research and development.

On June 1, 2013, the Company entered into a distribution agreement with Principal Business Enterprise Inc. (“PBE”) to distribute NeuroPhase. NovaBay received an upfront payment of \$200 thousand.

Revenue has been recognized under this agreement as follows:

(in thousands)	Three Months Ended September 30,		Nine Months Ended September 30,	
	2017	2016	2017	2016
Amortization of upfront technology access fee	\$ 1	\$ -	\$ 2	\$ -
Product revenue	105	8	249	8
Total revenue recognized	\$ 106	\$ 8	\$ 251	\$ 8

The Company had deferred revenue balances of \$192 thousand and \$194 thousand at September 30, 2017 and December 31, 2016, respectively, related to this agreement, which consisted of the unamortized balance on the upfront technology and access fee and the support for ongoing research and development.

Avenova Distribution Agreements

In November 2014, the Company signed a nationwide distribution agreement for its Avenova product with McKesson Corporation (“McKesson”) as part of the Company’s commercialization strategy. McKesson makes Avenova widely available in local pharmacies and major retail chains across the U.S., such as Wal-Mart, Costco, CVS and Target. In January 2015, the Company signed a nationwide distribution agreement with Cardinal Health. In April 2015, the Company also signed a nationwide distribution agreement with AmerisourceBergen to market Avenova. Since December 2015, the Company has signed nationwide distribution agreements with Willow Pharmacy, Allure Pharmacy, Smith Drug Company and Dakota Drug to market Avenova.

During the three months ended September 30, 2017 and 2016, the Company earned \$3.5 million and \$2.1 million, respectively, and \$9.3 million and \$4.3 million, respectively, for the nine months ended September 30, 2017 and 2016, in sales revenue for its Avenova product from its distribution agreements.

The Company had a deferred revenue balance of \$2.0 million and \$1.9 million as of September 30, 2017 and December 31, 2016, respectively, for its Avenova product from its distribution agreements.

NOTE 14. EMPLOYEE BENEFIT PLAN

The Company has a 401(k) plan covering all eligible employees. The Company is not required to contribute to the plan and made no contributions during the nine months ended September 30, 2017.

NOTE 15. RELATED PARTY TRANSACTIONS

Related Party Loans

See Note 8, “Related Party Notes Payable” for a description of the Loan with the following related parties: Mr. Sieczkarek, Chairman of the Board, President and Chief Executive Officer of the Company; the Gail J. Maderis Revocable Trust, on behalf of Ms. Maderis, a Director of the Company; Dr. McPherson, a Director of the Company; and Pioneer Singapore and Mr. Fu, the Company’s two largest stockholders. The Loan was fully paid off on August 1, 2016.

Related Party Financing

See Note 11, "Stockholders' Equity (Deficit)" – "Common Stock" for a description of the February 2016 Purchase Agreements and April 2016 Securities Purchase Agreement. The following related parties participated in both transactions: Mr. Sieczkarek, Chairman of the Board, President and Chief Executive Officer of the Company; and Pioneer Singapore and Mr. Fu, the Company's two largest stockholders.

Related Party Revenue

The Company recognized related party revenues from product sales and license and collaboration fees of \$6 thousand for both the three months ended September 30, 2017 and 2016, and \$21 thousand and \$300 thousand for the nine months ended September 30, 2017 and 2016, respectively. There were no related party accounts receivable as of September 30, 2017 and December 31, 2016. See Note 13, "License, Collaboration and Distribution Agreements - NeutroPhase Distribution Agreements," for additional information regarding the Company's distribution agreements with Pioneer, which is an affiliate of Pioneer Singapore, the Company's largest stockholder.

Related Party Expenses

The Company recognized related party commission fees of \$0 and \$548 thousand for the three months ended September 30, 2017 and 2016, respectively, and recognized \$0 and \$1,111 thousand for the nine months ended September 30, 2017 and 2016, respectively. These fees were paid to China Kington representing the commission on its sale of the Company's common stock. See Note 11, "Stockholders' Equity (Deficit)" – "Common Stock" for additional information regarding such commissions.

NOTE 16. ADDITIONAL DISCLOSURES

On May 16, 2017, we received a letter from the NYSE American notifying us that our stockholders' equity as of March 31, 2017 was below the minimum requirements of Section 1003(a) (iii) of the NYSE American Company Guide requiring stockholders' equity of \$6.0 million or more if the Company has reported losses from continuing operations and/or net losses in its five most recent fiscal years. In order to maintain our listing, we submitted a plan of compliance, addressing how we intend to regain compliance with the Company Guide within 12 months, or by May 16, 2018. On June 29, 2017, the Company was further notified that its plan to regain compliance had been accepted by the NYSE American. On September 14, 2017, the Company was notified by the NYSE American that the Company was not in compliance with the minimum stockholders' equity requirement of Section 1003(a)(ii) of the NYSE American Company Guide requiring stockholders' equity of \$4.0 million or more if the Company has reported losses from continuing operations and/or net losses in three of the four most recent fiscal years. According to the NYSE American, this notice does not impact the Company's ongoing plan to regain compliance with continuing listing standards. The Company's common stock will continue to be listed on the NYSE American during the plan period.

NOTE 17. SUBSEQUENT EVENTS

On November 13, 2017, the Company entered into a share purchase agreement (the "Purchase Agreement") for the sale of an aggregate of 2,400,000 shares of the Company's common stock, par value \$0.01 per share (the "Shares"), to an accredited investor for an aggregate purchase price of \$10.32 million (the "Private Placement"). The Private Placement is expected to close in January 2018, following the satisfaction of certain closing conditions specified in the Purchase Agreement. For additional information regarding this Purchase Agreement, see Part II, Item 5, "Other Information."

ITEM 2. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

The following discussion of our financial condition and results of operations should be read together with our consolidated financial statements and related notes included in Part I, Item 1 of this report, and with our consolidated financial statements and related notes, and Management's Discussion and Analysis of Financial Condition and Results of Operations, included in our Annual Report on Form 10-K for the year ended December 31, 2016, which was filed with the Securities and Exchange Commission (the "SEC") on March 23, 2017. This discussion contains forward-looking statements that involve risks and uncertainties. Words such as "expects," "anticipated," "will," "may," "goals," "plans," "believes," "estimates," variations of these words, and similar expressions are intended to identify these forward-looking statements. As a result of many factors, such as those set forth under the section entitled "Risk Factors" in Part II, Item 1A and elsewhere in this report, our actual results may differ materially from those anticipated in these forward-looking statements. Readers are cautioned that these forward-looking statements are only predictions based upon assumptions made that we believed to be reasonable at the time, and are subject to risks and uncertainties. Therefore, actual results may differ materially and adversely from those expressed in any forward-looking statements. Except as required by law, we undertake no obligation to revise or update publicly any forward-looking statements.

Overview

We are a pharmaceutical company predominantly focused on eye care. We develop, manufacture and market innovative anti-infective products for a multitude of uses; however, we are currently focused primarily on commercializing prescription Avenova for the domestic eye care market in the United States.

Avenova is the only eye care product formulated with our proprietary, stable and pure form of hypochlorous acid (marketed as Neutrox). By replicating the antimicrobial chemicals used by white blood cells to fight infection, Avenova has proven in laboratory testing to have broad antimicrobial properties. It removes microorganisms and debris from the skin on the eyelids and lashes without burning or stinging. It also is the only commercial product clinically validated to reduce bacterial load on ocular skin surface, the build-up of which can cause the chronic eye condition blepharitis.

In November 2015, we introduced a new business strategy to focus on growing sales of Avenova in the U.S. market and to restructure our business. This new strategy allowed us to achieve our goal of reaching adjusted positive cash flow from operations (excluding working capital changes) by the end of 2016. Our current business strategy is comprised of: (1) focusing our resources on growing the commercial sales of Avenova in the U.S. eye care market, including the implementation of an innovative sales and marketing strategy to increase product margin and profitability; (2) significantly reducing expenses through the restructuring of our operations and other cost reduction measures; and (3) seeking additional sources of revenue through partnering, divesting and/or other means of monetizing non-core assets in urology, dermatology, and wound care.

We have also developed additional commercial products containing Neutrox, including NeuroPhase for the wound care market and CelleRx for the dermatology market. We have partnerships for NeuroPhase in the U.S., as well as select overseas markets, most notably China.

In addition to our Neutrox family of products, we have synthesized and developed a second category of novel compounds also aimed at harnessing the power of white blood cell chemistry to address the global, topical anti-infective market. This second product category includes Auriclosene[®], our lead clinical-stage Aganocide[®] compound, which is a patented, synthetic molecule with a broad spectrum of activity against bacteria, viruses and fungi.

Critical Accounting Policies and Estimates

Our consolidated financial statements have been prepared in accordance with generally accepted accounting principles in the United States. The preparation of these consolidated financial statements requires us to make estimates, assumptions and judgments that affect the reported amounts of assets and liabilities and the disclosure of contingent assets and liabilities at the date of the financial statements, as well as the reported revenues and expenses during the reporting periods. In preparing these consolidated financial statements, management has made its best estimates and judgments of certain amounts, giving due consideration to materiality. On an ongoing basis, we evaluate our estimates and judgments related to revenue recognition, research and development costs, patent costs, stock-based compensation, income taxes and other contingencies. We base our estimates on historical experience and on various other factors that we believe are reasonable under the circumstances. Actual results may differ from these estimates.

While our significant accounting policies are more fully described in Note 2 of the Notes to Consolidated Financial Statements (Summary of Significant Accounting Policies), included in Part I, Item 1 of this report, we believe that the following accounting policies are most critical to fully understanding and evaluating our reported financial results.

Allowance for Doubtful Accounts

We charge “Bad Debt” expense and set up an “Allowance for Doubtful Accounts” when management identifies amounts due that are in dispute and believes it unlikely a specific invoice will be collected. At September 30, 2017 and December 31, 2016, management reserved \$28 thousand and \$10 thousand, respectively, primarily based on specific amounts that were in dispute and were over 120 days past due as of those dates.

Inventory

Inventory is comprised of (1) raw materials and supplies, such as bottles, packaging materials, labels, boxes, pumps; (2) goods in progress, which are normally unlabeled bottles; and (3) finished goods. We utilize contract manufacturers to produce our products and the cost associated with manufacturing is included in inventory. At September 30, 2017 and December 31, 2016, management had recorded an allowance for excess and obsolete inventory and lower of cost or estimated net realizable value adjustments of \$139 thousand and \$196 thousand, respectively.

Inventory is stated at the lower of cost or estimated net realizable value determined by the first-in, first-out method.

Revenue Recognition

We sell products through a limited number of distributors, direct medical sales representatives, and via our webstore. We generally record product sales upon shipment to the final customer for our webstore sales and upon shipment from our distributor to the final customers for our major distribution partners.

We recognize product revenue when: (i) persuasive evidence that an arrangement exists, (ii) delivery has occurred and title has passed, (iii) the price is fixed or determinable, and (iv) collectability is reasonably assured. Revenue from sales transactions where the customer has the right to return the product is recognized at the time of sale only if: (i) our price to the customer is substantially fixed or determinable at the date of sale, (ii) the customer has paid us, or the customer is obligated to pay us and the obligation is not contingent on resale of the product, (iii) the customer's obligation to us would not be changed in the event of theft or physical destruction or damage of the product, (iv) the customer acquiring the product for resale has economic substance apart from that provided by us, (v) we do not have significant obligations for future performance to directly bring about resale of the product by the customer, and (vi) the amount of future returns can be reasonably estimated. If these factors were to vary, the resulting change could have a material effect on our revenue recognition and on the Company's results of operations.

Product Revenue Allowances

Product revenue is recognized net of cash consideration paid to our customers and wholesalers, for services rendered by the wholesalers in accordance with the wholesalers' agreements, and include a fixed rate per prescription shipped and monthly program management and data fees. These services are not deemed sufficiently separable from the customers' purchase of the product; therefore, they are recorded as a reduction of revenue at the time of revenue recognition.

Other product revenue allowances include certain prompt pay discounts and allowances offered to our customers, program rebates and chargebacks. These product revenue allowances are recognized as a reduction of revenue or as a selling expense at the later of the date at which the related revenue is recognized or the date at which the allowance is offered. Calculating certain of these items involves estimates and judgments based on sales or invoice data, contractual terms, utilization rates, new information regarding changes in these programs' regulations and guidelines that would impact the amount of the actual rebates or chargebacks. We review the adequacy of product revenue allowances on a quarterly basis. Amounts accrued for product revenue allowances are adjusted when trends or significant events indicate that adjustment is appropriate and to reflect actual experience.

The following table summarizes the activity in the accounts related to product allowances (in thousands):

	Wholesaler/ Pharmacy fees	Cash discounts	Rebate	Total
Balance at December 31, 2016	\$ (331)	\$ —	\$ 492	\$ 161
Current provision related to sales made during current period	(2,381)	(328)	(6,749)	(9,458)
Payments	2,339	328	6,635	9,302
Balance at September 30, 2017	<u>\$ (373)</u>	<u>\$ —</u>	<u>\$ 378</u>	<u>\$ 5</u>

Other Revenue

License and collaboration revenue is primarily generated through agreements with strategic partners for the development and commercialization of the Company's product candidates. The terms of the agreements typically include non-refundable upfront fees, funding of research and development activities, and payments based upon achievement of certain milestones and royalties on net product sales. In accordance with authoritative guidance, the Company analyzes its multiple element arrangements to determine whether the elements can be separated. The Company performs its analysis at the inception of the arrangement and as each product or service is delivered. If a product or service is not separable, the combined deliverables are accounted for as a single unit of accounting, and revenue is recognized over the performance obligation period. The Company recognizes other revenue when the following criteria have been met: persuasive evidence of an arrangement exists; delivery has occurred and risk of loss has passed; the seller's price to the buyer is fixed or determinable; and collectability is reasonably assured. If these factors were to vary, the resulting change could have a material effect on the Company's revenue recognition and results of operations.

Cost of Goods Sold

Cost of goods sold includes third party manufacturing costs, shipping costs, and other costs of goods sold. Cost of goods sold also includes any necessary allowances for excess and obsolete inventory, along with lower of cost or estimate net realizable value.

Research and Development Costs

We charge research and development costs to expense as incurred. These costs include salaries and benefits for research and development personnel, costs associated with clinical trials managed by contract research organizations, and other costs associated with research, development and regulatory activities. Research and development costs may vary depending on the type of item or service incurred, location of performance or production, or lack of availability of the item or service, and specificity required in production for certain compounds. We use external service providers to conduct clinical trials, to manufacture supplies of product candidates and to provide various other research and development-related products and services. Our research, clinical and development activities are often performed under agreements we enter into with external service providers. We estimate and accrue the costs incurred under these agreements based on factors such as milestones achieved, patient enrollment, estimates of work performed, and historical data for similar arrangements. As actual costs are incurred, we adjust our accruals. Historically, our accruals have been consistent with management's estimates, and no material adjustments to research and development expenses have been recognized. Subsequent changes in estimates may result in a material change in our expenses, which could also materially affect our results of operations.

Stock-Based Compensation

Stock-based compensation expense is measured at the grant date for all stock-based awards to employees and directors and is recognized as expense over the requisite service period, which is generally the vesting period. Forfeitures are estimated at the time of grant and reduce compensation expense ratably over the vesting period. This estimate is adjusted periodically based on the extent to which actual forfeitures (Equity-Based Compensation) differ, or are expected to differ, from the previous estimate. See Note 12 of the Notes to Consolidated Financial Statements for further information regarding stock-based compensation expense and the assumptions used in estimating that expense. For stock options granted to employees, the fair value of the stock options is estimated using a Black-Scholes-Merton option pricing model.

Stock-based compensation arrangements with non-employees are recorded at their fair value on the measurement date. The measurement of stock-based compensation is subject to periodic adjustment as the underlying equity instruments vest. Non-employee stock-based compensation charges are amortized over the vesting period on a straight-line basis. For stock options granted to non-employees, the fair value of the stock options is estimated using a Black-Scholes-Merton option pricing model.

Income Taxes

We account for income taxes under the asset and liability method. Deferred tax assets and liabilities are recognized for the future tax consequences attributable to differences between the financial statement carrying amounts of existing assets and liabilities and their respective tax bases and operating loss and tax credit carryforwards. Deferred tax assets and liabilities are measured using enacted tax rates expected to apply to taxable income in the years in which those temporary differences are expected to be recovered or settled. The effect on deferred tax assets and liabilities of a change in tax rates is recognized in income in the period that includes the enactment date. A valuation allowance is recognized if it is more likely than not that some portion or the entire deferred tax asset will not be recognized.

Common Stock Warrant Liabilities

For warrants that are issued or modified and there is a deemed possibility that we may have to settle them in cash, or for warrants we issue or modify that contain an exercise price adjustment feature that reduces the exercise price and increases the number of shares of our common stock eligible for purchase thereunder in the event we subsequently issue equity instruments at a price lower than the exercise price of the warrants, we record the fair value of the issued or modified warrants as a liability at each balance sheet date and record changes in the estimated fair value as a non-cash gain or loss on the consolidated statements of operations and comprehensive loss. The fair values of these warrants have been determined using the Binomial Lattice ("Lattice") valuation model, and the change in the fair value are recorded in the consolidated statements of operations and comprehensive gain or loss. The Lattice model provides for assumptions regarding volatility, call and put features and risk-free interest rates within the total period to maturity. These values are subject to a significant degree of our judgment. For additional information regarding the Company's outstanding warrants, see Note 10 of the Notes to Consolidated Financial Statements (Warrant Liability).

Recent Accounting Pronouncements

See Note 2 of the Notes to Consolidated Financial Statements (Summary of Significant Accounting Policies) included in Part I, Item 1 of this report for information on recent accounting pronouncements.

Results of Operations

Comparison of the Three Months Ended September 30, 2017 and 2016

	Three Months Ended		Dollar Change	Percent Change
	September 30, 2017	September 30, 2016		
	(in thousands)			
Statement of Operations				
Sales:				
Product revenue, net	\$ 4,080	\$ 3,262	\$ 818	25%
Other revenue	11	176	(165)	(94)%
Total sales, net	4,091	3,438	653	19%
Product cost of goods sold	521	566	(45)	(8)%
Gross profit	3,570	2,872	698	24%
Research and development	132	4	128	3,200%
Sales and marketing	3,296	2,663	633	24%
General and administrative	2,311	2,266	45	2%
Total operating expenses	5,739	4,933	806	16%
Operating Loss	(2,169)	(2,061)	(108)	5%
Non-cash loss on changes in fair value of warrant liability	(281)	(1,671)	1,390	(83)%
Other income (expense), net	3	(4)	7	(175)%
Loss before provision for income taxes	(2,447)	(3,736)	1,289	(35)%
Provision for income tax	-	-	-	-%
Net loss and comprehensive loss	\$ (2,447)	\$ (3,736)	\$ 1,289	(35)%

Sales, Product Cost of Goods Sold and Gross Profit

Product revenue, net, increased by \$0.8 million, or 25%, to \$4.1 million for the three months ended September 30, 2017 from \$3.3 million for the prior year's period. The change in product revenue, net, was primarily the result of our planned shift of sales to the higher-margin reimbursed pharmacy channel from our legacy in-office direct sales channel.

Other revenue decreased by \$165 thousand for the three months ended September 30, 2017, or 94%, to \$11 thousand from \$176 thousand for the three months ended September 30, 2016, which was primarily due to recognition of deferred revenue upon the termination of a collaboration agreement in the third quarter of 2016.

Product cost of goods sold decreased by \$45 thousand, or 8%, to \$521 thousand for the three months ended September 30, 2017, from \$566 thousand for the three months ended September 30, 2016. The decrease in product cost of goods sold was primarily the result of the product mix in non-Avenova sales. This was partly offset by goods sold not increasing at the same rate of product revenue due to Avenova price increases and the continuing shift in sales mix toward the reimbursed pharmacy channel which maintains a higher selling price.

Gross profit increased by \$0.7 million, or 24%, to \$3.6 million for the three months ended September 30, 2017 from \$2.9 million for the three months ended September 30, 2016. The increase in gross profit was primarily the result of increased sales of Avenova, through the continuing shift in sales mix toward the higher margin reimbursed pharmacy channel.

Research and Development

Research and development expenses increased by \$128 thousand, or 3,200%, to \$132 thousand for the three months ended September 30, 2017, up from \$4 thousand for the three months ended September 30, 2016. The increase is primarily due to a gain recognized on the sale of laboratory equipment of \$232 thousand during the third quarter of 2016. This was partly offset by the Company's previously-announced change in business strategy, as reflected by its reduced spending on clinical trials and its shift of capital resources from research and development to the commercialization of Avenova.

Sales and marketing

Sales and marketing expenses increased by \$0.6 million, or 24%, to \$3.3 million for the three months ended September 30, 2017, up from \$2.7 million for the three months ended September 30, 2016. The increase was primarily due to the increase in sales representative headcount, along with increased sampling and marketing programs.

General and administrative

General and administrative expenses increased by \$45 thousand, or 2%, to \$2.3 million for the three months ended September 30, 2017, which was consistent with the three months ended September 30, 2016. The slight increase was primarily a result of higher stock based compensation, recording of the CFO's retirement package, and employee administrative related expenses to support the sales team brought in-house at the end of January 2017. This was partly offset by the Company's operations moving to a smaller headquarters office and subleasing our former headquarters.

Non-cash loss on changes in fair value of warrant liability

The adjustments to the fair value of warrants resulted in a loss of \$281 thousand for the three months ended September 30, 2017, compared to a loss of \$1.7 million for the three months ended September 30, 2016.

In October 2015, we issued warrants and modified the terms of warrants originally issued in July 2011 and March 2015, resulting in the creation of warrant liabilities. For additional information regarding these warrants and their valuation, please see Note 10 in the Notes to Consolidated Financial Statements in Part I, Item 1 of this report. The Company incurred a non-cash loss in the three months ended September 30, 2017 and 2016 resulting from an increase in the price of the Company's common stock during the respective period, along with the three months ended September 30, 2016 having more outstanding warrants during the period.

Other income (expense), net

Other income (expense), net, changed to income of \$3 thousand for the three months ended September 30, 2017, as compared to an expense of \$4 thousand for the three months ended September 30, 2016.

Comparison of the Nine Months Ended September 30, 2017 and 2016

	Nine Months Ended September 30,		Year- Year Change	Percent Change
	2017	2016		
(in thousands)				
Statement of Operations Data:				
Sales:				
Product revenue	\$ 11,868	\$ 7,571	\$ 4,297	57%
Other revenue	46	249	(203)	(82)%
Total net sales	11,914	7,820	4,094	52%
Product cost of goods sold	1,807	1,656	151	9%
Gross profit	10,107	6,164	3,943	64%
Research and development	264	1,215	(951)	(78)%
Sales and marketing	10,412	8,660	1,752	20%
General and administrative	7,134	5,241	1,893	36%
Total operating expenses	17,810	15,116	2,694	18%
Operating Loss	(7,703)	(8,952)	1,249	(14)%
Non-cash loss on changes in fair value of warrant liability	(501)	(2,480)	1,979	(80)%
Other income (expense), net	9	(69)	78	(113)%
Loss before provision for income taxes	(8,195)	(11,501)	3,306	(29)%
Provision for income tax	(1)	(2)	1	(50)%
Net loss and comprehensive loss	\$ (8,196)	\$ (11,503)	\$ 3,307	(29)%

Total Net Sales, Product Revenue and Gross Profit

Product revenue increased by \$4.3 million, or 57%, to \$11.9 million from \$7.6 million for the nine months ended September 30, 2017, compared to the nine months ended September 30, 2016. The change in product revenue, net, was primarily the result of our planned shift of sales to the higher-margin reimbursed pharmacy channel from our legacy in-office direct sales channel.

Other revenue decreased by \$203 thousand, or 82%, to \$46 thousand from \$249 thousand for the nine months ended September 30, 2017, compared to the nine months ended September 30, 2016, primarily due to recognition of deferred revenue upon the termination of a collaboration agreement in the third quarter of 2016.

Product cost of goods sold increased by \$151 thousand, or 9%, to \$1,807 thousand for the nine months ended September 30, 2017, from \$1,656 thousand for the nine months ended September 30, 2016. Increase in product cost of goods sold was primarily the result of higher Avenova and non-Avenova sales. Product cost of goods sold did not increase at the same rate of product revenue due to Avenova price increases and continuing shift in sales mix toward the reimbursed pharmacy channel which maintains a higher selling price.

Gross profit increased \$3.9 million, or 64%, to \$10.1 million from \$6.2 million for the nine months ended September 30, 2017, compared to the nine months ended September 30, 2016. The increase in gross profit was primarily the result of increased sales of Avenova, through the continuing shift in sales mix toward the higher margin reimbursed pharmacy channel.

Research and Development

Research and development expenses decreased by \$0.9 million, or 78%, to \$0.3 million for the nine months ended September 30, 2017, down from \$1.2 million for the nine months ended September 30, 2016. The reduction is primarily the result of the Company's previously-announced change in business strategy, as reflected by its reduced spending on clinical trials and its shift of capital resources from research and development to the commercialization of Avenova.

Sales and marketing

Sales and marketing expenses increased by \$1.8 million, or 20%, to \$10.4 million for the nine months ended September 30, 2017, up from \$8.7 million for the nine months ended September 30, 2016. The increase was primarily due to an increase in sales representative headcount, along with increased sampling and marketing programs.

General and administrative

General and administrative expenses increased by \$1.9 million, or 36%, to \$7.1 million for the nine months ended September 30, 2017, up from \$5.2 million for the nine months ended September 30, 2016. The increase was a result of higher stock based compensation, recording of the CFO's retirement package, hiring of a permanent CEO position during second quarter of 2016, and the establishment of a reserve relating to the Liam Kozma legal complaint. For additional information regarding the Kozma litigation, see Note 9 "Commitments and Contingencies – Legal Matters." This was partly offset by the Company's operations moving to a smaller headquarters office and subleasing our former headquarters.

Non-cash loss on changes in fair value of warrant liability

The adjustments to the fair value of warrant liability resulted in a loss of \$0.5 million for the nine months ended September 30, 2017, compared to a loss of \$2.5 million for the nine months ended September 30, 2016.

In October 2015, we issued warrants and modified the terms of warrants originally issued in July 2011 and March 2015, resulting in the creation of warrant liability. For additional information regarding these warrants and their valuation, please see Note 10 in the Notes to Consolidated Financial Statements in Part I, Item 1 of this report. The Company incurred a non-cash loss in the nine months ended September 30, 2017 related to a change in the fair value of warrant liability that was caused by an increase in the price of the Company's common stock. During the nine months ended September 30, 2016, non-cash loss on changes in fair value of warrant liability was caused by a reduction in the exercise price of warrants issued in July 2011, March 2015 and October 2015 pursuant to the price protection provision in such warrants, along with an increase in the price of the Company's common stock above its warrants' exercise prices.

Other income (expense), net

Other income (expense), net, changed to income of \$9 thousand for the nine months ended September 30, 2017, as compared to an expense of \$69 thousand for the nine months ended September 30, 2016. The decrease in other expense was a result of interest accrued during the nine months ended September 30, 2016 associated with our Bridge Loans, which were fully paid off on August 1, 2016. For additional information regarding the Bridge Loans, please see Note 8 in the Notes to Consolidated Financial Statements in Part I, Item 1 of this report.

Financial Condition, Liquidity and Capital Resources

As of September 30, 2017, our cash and cash equivalents were \$6.1 million, compared to \$9.5 million as of December 31, 2016. The Company has sustained operating losses for the majority of its corporate history and expects that its 2017 expenses will exceed its 2017 revenues, as we continue to invest in our Avenova commercialization efforts. The Company expects to continue incurring operating losses and negative cash flows until revenues reach a level sufficient to support ongoing growth and operations. Accordingly, the Company's planned operations raise doubt about its ability to continue as a going concern. The Company's liquidity needs will be largely determined by the success of operations in regards to the commercialization of Avenova. The Company's plans to alleviate the doubt regarding its ability to continue as a going concern, which are being implemented to mitigate these conditions, primarily include its ability to control the timing and spending on its sales and marketing programs and raising additional funds through equity financings. The Company also may consider other plans to fund operations including: (1) out-licensing rights to certain of its products or product candidates, pursuant to which the Company would receive cash milestones or an upfront fee; (2) raising additional capital through debt financings or from other sources; (3) reducing spending on one or more of its sales and marketing programs; and/or (4) restructuring operations to change its overhead structure. The Company may issue securities, including common stock and warrants through private placement transactions or registered public offerings, which would require the filing of a Form S-1 or Form S-3 registration statement with the SEC. The Company's future liquidity needs, and ability to address those needs, will largely be determined by the success of the commercialization of Avenova. The accompanying financial statements have been prepared assuming the Company will continue to operate as a going concern, which contemplates the realization of assets and the settlement of liabilities in the normal course of business. The consolidated financial statements do not include any adjustments to reflect the possible future effects on the recoverability and classification of assets or the amounts of liabilities that may result from uncertainty related to its ability to continue as a going concern.

Net Cash Used In Operating Activities

For the nine months ended September 30, 2017, net cash used in operating activities was \$3.3 million, compared to \$11.4 million for the nine months ended September 30, 2016. The decrease was primarily due to increased sales of Avenova increased accounts receivable collections, lower prepaid expenses resulting from bringing the sales team in-house during the first quarter of 2017, and increased payment of payables during the nine months ended September 30, 2016 resulting from increased financing activities.

Net Cash Used In Investing Activities

For the nine months ended September 30, 2017, net cash used in investing activities for the purchase of property and equipment was \$228 thousand, compared to \$78 thousand for the nine months ended September 30, 2016.

Net Cash Provided By Financing Activities

Net cash provided by financing activities was \$0.1 million for the nine months ended September 30, 2017, which was attributable to the exercise of options. Net cash provided by financing activities of \$18.6 million for the nine months ended September 30, 2016, was attributable to the sale of common stock and warrants, partly off-set by the repayment of borrowings.

Net Operating Losses and Tax Credit Carryforwards

As of December 31, 2016, we had NOL carryforwards for federal and state income tax purposes of \$90.2 million and \$78.2 million, respectively. If not utilized, the federal and state NOL carryforwards will begin expiring at various dates between 2024 and 2036. As of December 31, 2016, we also had tax credit carryforwards for federal income tax purposes of \$1.3 million and \$0.3 million for state tax purposes. If not utilized, the federal tax credits will begin expiring in 2031. The state tax credits have an indefinite carryover period.

Current federal and California tax laws include substantial restrictions on the utilization of NOL carryforwards in the event of an ownership change of a corporation. Accordingly, our ability to utilize NOL carryforwards may be limited as a result of such ownership changes and result in expiration before utilization.

Inflation

We do not believe that inflation has had a material impact on our business and operating results during the periods presented, and we do not expect it to have a material impact in the near future, although there can be no assurances that our business will not be affected by inflation in the future.

Off-Balance Sheet Arrangements

We had no off-balance sheet arrangements as of September 30, 2017.

Seasonality

Consistent with our peers in the United States pharmaceutical industry, our business experiences seasonality with the first quarter of each year typically being the lowest revenue quarter. This annual phenomenon is due to consumers facing the need to satisfy health insurance deductibles and changes to copays as each new insurance year begins.

Contractual Obligations

Our contractual cash commitments as of September 30, 2017, were as follows (in thousands):

Contractual Obligations	Total	Less than 1 year	1 - 3 years	3 - 5 years	More than 5 years
Facility leases	\$ 4,003	\$ 1,075	\$ 2,248	\$ 680	\$ —
Vehicle leases	381	163	218	—	—
	<u>\$ 4,384</u>	<u>\$ 1,238</u>	<u>\$ 2,466</u>	<u>\$ 680</u>	<u>\$ —</u>

Our commitments as of September 30, 2017 consist of two operating facility leases: the Lease and the lease for Emery Station, and 54 operating vehicle leases.

The total commitment for the Lease as of September 30, 2017 was \$1.9 million due over the lease term, compared to \$2.1 million as of December 31, 2016.

The total commitment of the Emery Station lease as of September 30, 2017 was \$2.2 million due over such lease term, compared to \$2.6 million as of December 31, 2016. On July 11, 2016, we entered into a Sublease Agreement to sublease our former corporate headquarters. Sublease rental reimbursement is not deducted from the above table. We anticipate collecting \$604 thousand, \$684 thousand, and \$767 thousand, in the years ending September 30, 2018, 2019, and 2020, respectively, under the Sublease for the lease of Emery Station.

Additionally, we have operating leases for a fleet of 54 vehicles, which commenced upon the delivery of the vehicles during the first quarter 2017. The total commitment for these leases as of September 30, 2017 was \$381 thousand due over the lease terms, compared to zero as of December 31, 2016.

See Note 9 in the Notes to Consolidated Financial Statements in Part I, Item 1 of this report for further information regarding these leases.

ITEM 3. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

Our market risk consists principally of interest rate risk on our cash and cash equivalents.

With most of our focus on Avenova in the domestic U.S. market, we do not have any material exposure to foreign currency rate fluctuations.

ITEM 4. CONTROLS AND PROCEDURES

As of the end of the period covered by this report, we carried out an evaluation, under the supervision and with the participation of our management, including our Chief Executive Officer and Chief Financial Officer, of the effectiveness of our disclosure controls and procedures pursuant to Rule 13a-15 and 15d-15 of the Securities Exchange Act of 1934, as amended (the "Exchange Act").

A control system, no matter how well conceived and operated, can provide only reasonable, not absolute, assurance that the objectives of the control system are met. Further, the design of a control system must reflect the fact that there are resource constraints, and the benefits of controls must be considered relative to their costs. Assessing the costs and benefits of such controls and procedures necessarily involves the exercise of judgment by management. Because of the inherent limitations in all control systems, no evaluation of controls can provide absolute assurance that all control issues and instances of fraud, if any, have been detected.

Based upon that evaluation, our Chief Executive Officer and our Chief Financial Officer concluded that, as of the end of the period covered by this report, our disclosure controls and procedures were effective at the reasonable assurance level to ensure that information required to be disclosed by us in the reports that we file or submit under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the SEC's rules and forms and were effective in ensuring that information required to be disclosed by us in the reports that we file or submit under the Exchange Act was accumulated and communicated to our management, including our Chief Executive Officer and Chief Financial Officer, as appropriate, to allow timely decisions regarding required disclosure.

Changes in Internal Control Over Financial Reporting

There was no change in our internal control over financial reporting during the quarter ended September 30, 2017, that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

PART II. OTHER INFORMATION

ITEM 1A. RISK FACTORS

Our business is subject to a number of risks, the most important of which are discussed below. You should consider carefully the following risks in addition to the other information contained in this report and our other filings with the SEC before deciding to buy, sell or hold our common stock. If any of the following risks actually occur, our business, financial condition or results of operations could be materially adversely affected, the value of our common stock could decline and you may lose all or part of your investment. The risks and uncertainties described below are not the only ones facing our Company. Additional risks and uncertainties not presently known to us or that we currently believe are immaterial may also impair our business operations.

Risks Relating to Our Liquidity

We have a history of losses and we may never achieve or maintain sustained profitability.

We have historically incurred net losses and we may never achieve or maintain sustained profitability. In addition, at this time:

- we expect to incur substantial marketing and sales expenses as we continue to attempt to increase sales of our Avenova product;
- our results of operations may fluctuate significantly;
- we may be unable to develop and commercialize our product candidates; and
- it may be difficult to forecast accurately our key operating and performance metrics because of our limited operating history.

We will need to generate significant revenues to achieve and maintain profitability. If we cannot successfully market and sell Avenova, either independently or with partners, we will not be able to generate sufficient revenues to achieve or maintain profitability in the future. Our failure to achieve and subsequently maintain profitability could have a material adverse impact on the market price of our common stock.

Risks Relating to Owning Our Common Stock

If our stockholders' equity does not meet the minimum standards of the NYSE American, we may be subject to delisting procedures.

On May 16, 2017, we received a letter from the NYSE American notifying us that our stockholders' equity as of March 31, 2017 was below the minimum requirements of Section 1003(a)(iii) of the NYSE American Company Guide. In order to maintain our listing, we submitted a plan of compliance, addressing how we intend to regain compliance with the Company Guide within 12 months, or by May 16, 2018. On June 29, 2017, we were further notified by the NYSE American that our common stock no longer satisfied the requirements of Company Guide Section 1003(a)(ii) of the NYSE American Company Guide. We continue our listing but will be subject to periodic reviews by the exchange. If we do not make progress consistent with the plan, the exchange will initiate delisting procedures, as appropriate.

We are pursuing options to address the stockholders' equity deficiency as indicated in our plan submitted to the NYSE American. However, we cannot guarantee that we will be able to comply with the listing requirements, and therefore our common stock may be subject to delisting. If our common stock is delisted, this could, among other things, substantially impair our ability to raise additional funds; result in a loss of institutional investor interest and fewer financing opportunities for us; and/or result in potential breaches of representations or covenants of our warrants, subscription agreements or other agreements pursuant to which we made representations or covenants relating to our compliance with applicable listing requirements. Claims related to any such breaches, with or without merit, could result in costly litigation, significant liabilities and diversion of our management's time and attention and could have a material adverse effect on our financial condition, business and results of operations.

If we conduct offerings in the future, the price at which we offer our securities may trigger a price protection provision included in warrants originally issued in July 2011, March 2015 and October 2015, reducing the probability and magnitude of any future share price appreciation.

As part of our October 2015 offering, we agreed to provide certain price protections affecting currently outstanding warrants exercisable for an aggregate of 544,695 shares of our common stock, of which 260,093 shares must be issued, if at all, by March 6, 2020, and 284,602 shares must be issued, if at all, by October 27, 2020 (the "Warrants"). Specifically, in the event that we undertake a third-party equity financing of either: (1) common stock at a sale price of less than \$5.00 per share; or (2) convertible securities with an exercise price of less than \$5.00 per share, we have agreed to reduce the exercise price of all Warrants to such lower price. The exercise price of the Warrants is currently set at \$1.81 as a result of our February 2016 private placement offering. The further reduction of the exercise price for the Warrants would limit the probability and magnitude of future share price appreciation, if any, by placing downward pressure on our stock price if it exceeds such offering sale price. All of the Warrants are currently exercisable and will remain so after any exercise price adjustment. In the past, we have extended the expiration dates or adjusted other terms of the Warrants as consideration for certain offering conditions, and we cannot assure you that we will not do so in the future. Any such modifications would reduce the probability and magnitude of any share price appreciation during the period of the extension. We cannot guarantee that you will receive a return on your investment when you do sell your shares or that you will not lose the entire amount of your investment. If you do receive a return on your investment, it may be lower than the return you would have realized in the absence of the price protection provisions discussed hereof.

The price of our common stock may fluctuate substantially, which may result in losses to our stockholders.

The stock prices of many companies in the pharmaceutical and biotechnology industry have generally experienced wide fluctuations, which are often unrelated to the operating performance of those companies. The market price of our common stock is likely to be volatile and could fluctuate in response to, among other things:

- the announcement of new products by us or our competitors;
- the announcement of partnering arrangements by us or our competitors;
- quarterly variations in our or our competitors' results of operations;
- announcements by us related to litigation;
- changes in our earnings estimates, investors' perceptions, recommendations by securities analysts or our failure to achieve analysts' earnings estimates;
- developments in our industry; and
- general, economic and market conditions, including volatility in the financial markets, a decrease in consumer confidence and other factors unrelated to our operating performance or the operating performance of our competitors.

The volume of trading of our common stock may be low, leaving our common stock open to the risk of high volatility.

The number of shares of our common stock being actively traded may be very low and any stockholder wishing to sell his, her, or its stock may cause a significant fluctuation in the price of our stock. We have a number of large stockholders, including our principal stockholders China Pioneer Pharma Holdings Limited ("China Pioneer"), Pioneer Pharma (Hong Kong) Company Limited as a wholly-owned subsidiary of China Pioneer and the recipient of all of the holdings of Pioneer Pharma (Singapore) Pte. Ltd. pursuant to an internal corporate reorganization of China Pioneer ("Pioneer Hong Kong") and Mr. Jian Ping Fu. Each of China Pioneer and Mr. Fu own 34% and 26% of our common stock, respectively. The sale of a substantial number of shares of common stock by such large stockholders within a short period of time could cause our stock price to decrease substantially. In addition, low trading volume of a stock increases the possibility that, despite rules against such activity, the price of the stock may be manipulated by persons acting in their own self-interest. We may not have adequate market makers and market making activity to prevent manipulation.

Our amended and restated certificate of incorporation and bylaws and Delaware law contain provisions that could discourage a third party from making a takeover offer that is beneficial to our stockholders.

Anti-takeover provisions of our amended and restated certificate of incorporation, amended and restated bylaws and Delaware law may have the effect of deterring or delaying attempts by our stockholders to remove or replace management, engage in proxy contests and effect changes in control. The provisions of our charter documents include:

- a classified board so that only one of the three classes of directors on our Board of Directors is elected each year;
- elimination of cumulative voting in the election of directors;
- procedures for advance notification of stockholder nominations and proposals;
- the ability of our Board of Directors to amend our bylaws without stockholder approval; and
- the ability of our Board of Directors to issue up to 5,000,000 shares of preferred stock without stockholder approval upon the terms and conditions and with the rights, privileges and preferences as our Board of Directors may determine.

In addition, as a Delaware corporation, we are subject to the Delaware General Corporation Law (“DGCL”), which includes provisions that may have the effect of deterring hostile takeovers or delaying or preventing changes in control or management of our Company. Provisions of the DGCL could make it more difficult for a third party to acquire a majority of our outstanding voting stock by discouraging a hostile bid, or delaying, preventing or deterring a merger, acquisition or tender offer in which our stockholders could receive a premium for their shares, or effect a proxy contest for control of NovaBay or other changes in our management.

We have not paid dividends in the past and do not expect to pay dividends in the future, and any return on investment may be limited to the value of our stock.

We have never paid cash dividends on our common stock and do not anticipate paying cash dividends on our common stock in the foreseeable future. The payment of dividends on our common stock will depend on our earnings, financial condition and other business and economic factors affecting us at such time as our Board of Directors may consider relevant. If we do not pay dividends, you will experience a return on your investment in our shares only if our stock price appreciates. We cannot assure you that you will receive a return on your investment when you do sell your shares or that you will not lose the entire amount of your investment.

China Pioneer, Pioneer Hong Kong, Mr. Jian Ping Fu and/or China Kington might influence our corporate matters in a manner that is not in the best interest of our general stockholders.

As of April 17, 2017, China Pioneer beneficially owned approximately 34% of our common stock. Our director Mr. Xinzhou “Paul” Li is the chairman of China Pioneer. Pursuant to the arrangement of our Bridge Loan, two (2) of our directors were nominated by China Kington, including Mr. Mijia “Bob” Wu, who is the Managing Director of China Kington and Non-Executive Director of Pioneer Hong Kong, and Mr. Xiaoyan “Henry” Liu, who has worked closely with China Kington on other financial transactions in the past. Mr. Jian Ping Fu beneficially owns approximately 26% of our common stock. China Kington and its affiliates have served as placement agent for three purchases of Company securities by Mr. Fu during the last year.

As a result, China Pioneer, Pioneer Hong Kong as a wholly-owned subsidiary of China Pioneer and China Kington have input on all matters before our Board of Directors and may be able to exercise significant influence over all matters requiring board and stockholder approval. China Pioneer, Pioneer Hong Kong and China Kington may choose to exercise their influence in a manner that is not in the best interest of our general stockholders.

In addition, were China Pioneer, Pioneer Hong Kong and Mr. Fu to cooperate, they could unilaterally elect all of their preferred director nominees at a Company Annual Meeting of Stockholders. Even with our classified board, China Pioneer, Pioneer Hong Kong and Mr. Fu could ensure that five (5) of our eight (8) directors are either nominees of China Pioneer, Pioneer Hong Kong or China Kington. In the interim, China Pioneer, Pioneer Hong Kong, China Kington and/or Mr. Fu could exert significant indirect influence on us and our management.

Our ability to use our net operating loss carryforwards and certain other tax attributes may be limited.

Under Section 382 of the Internal Revenue Code of 1986, as amended (the “Code”), if a corporation undergoes an “ownership change,” generally defined as a greater than 50% change (by value) in its equity ownership over a three-year period, the corporation’s ability to use its pre-change net operating loss (“NOL”) carryforwards and other pre-change tax attributes (such as research tax credits) to offset its post-change income may be limited. Since our formation, we have raised capital through the issuance of capital stock on several occasions which, combined with the purchasing shareholders’ subsequent disposition of those shares, may have resulted in one or more changes of control, as defined by Section 382 of the Code. We have not currently completed a study to assess whether any change of control has occurred, or whether there have been multiple changes of control since our formation, due to the significant complexity and cost associated with such study. If we have experienced a change of control at any time since its formation, its NOL carryforwards and tax credits may not be available, or their utilization could be subject to an annual limitation under Section 382. In addition, since we may need to raise additional funding to finance our operations, we may undergo further ownership changes in the future. If we earn net taxable income, our ability to use our pre-change NOL carryforwards to offset United States federal taxable income may be subject to limitations, which could potentially result in increased future tax liability to us.

Risks Relating to Our Business

Our future success is largely dependent on the successful commercialization of Avenova.

The future success of our business is largely dependent upon the successful commercialization of Avenova. We are dedicating a substantial amount of our resources to advance Avenova as aggressively as possible. If we encounter difficulties in its commercialization, we may not have the resources necessary to continue our business in its current form. If we are unable to establish and maintain adequate sales, marketing and distribution capabilities or enter into or maintain agreements with third parties to do so, we may be unable to successfully commercialize our products. We believe we are creating an efficient commercial organization. However, we may not be able to correctly judge the size and experience of the sales and marketing force and the scale of distribution necessary to be successful. Establishing and maintaining sales, marketing, and distribution capabilities are expensive and time-consuming. Such expenses may be disproportionate compared to the revenues we may be able to generate on sales of Avenova.

Our commercialized products are not approved by the FDA as a drug, so we rely solely on the 510(k) clearance of Neutrox as a medical device.

Our business and future growth depend on the development, use and sale of products that are subject to FDA regulation, clearance and approval. Under the U.S. Federal Food, Drug, and Cosmetic Act and other laws, we are prohibited from promoting our products for off-label uses. This means that we may not make claims about the safety or effectiveness of our products and may not proactively discuss or provide information on the use of our products, except as allowed by the FDA. As a medical device, our claims regarding efficacy are limited. Without claims of efficacy, market acceptance of our products may be slow.

There is a risk that the FDA or other federal or state law enforcement authorities could determine that the nature and scope of our sales and marketing activities may constitute the promotion of our products for a non-FDA-approved use in violation of applicable law. We also face the risk that the FDA or other regulatory authorities might pursue enforcement based on past activities that we have discontinued or changed, including sales activities, arrangements with institutions and doctors, educational and training programs and other activities.

Government investigations concerning the promotion of off-label uses and related issues are typically expensive, disruptive and burdensome and generate negative publicity. If our promotional activities are found to be in violation of applicable law or if we agree to a settlement in connection with an enforcement action, we would likely face significant fines and penalties and be required to substantially change our sales, promotion, grant and educational activities. In addition, were any enforcement actions against us or our senior officers to arise, we could be excluded from participation in U.S. government healthcare programs such as Medicare and Medicaid.

We do not have our own manufacturing capacity, and we rely on partnering arrangements or third-party manufacturers for the manufacture of our products and potential products.

We do not currently operate manufacturing facilities for production of our product and product candidates. We have no experience in product formulation or manufacturing, and we lack the resources and the capabilities to manufacture any of our product candidates on a clinical or commercial scale. As a result, we have partnered and expect to partner with third parties to manufacture our products or rely on contract manufacturers to supply, store and distribute product supplies for our clinical trials. Any performance failure on the part of our commercial partners or future manufacturers could delay clinical development or regulatory approval of our product candidates or commercialization of our products, producing additional losses and reducing or delaying product revenues.

Our products and product candidates do and will require precise, high-quality manufacturing. The failure to achieve and maintain high manufacturing standards, including the incidence of manufacturing errors, could result in patient injury or death, product recalls or withdrawals, delays or failures in product testing or delivery, cost overruns or other problems that could seriously harm our business. Contract manufacturers and partners often encounter difficulties involving production yields, quality control and quality assurance, as well as shortages of qualified personnel. These manufacturers and partners are subject to ongoing periodic unannounced inspection by the FDA and corresponding state agencies to ensure strict compliance with Quality Systems Regulations, current Good Manufacturing Practice and other applicable government regulations and corresponding foreign standards. If any of our manufacturers or partners fails to maintain compliance, the production of our products could be interrupted, resulting in delays, additional costs and potentially lost revenues.

In addition, if the FDA or other regulatory agencies approve any of our product candidates for commercial sale, we will need to manufacture them in larger quantities. Significant scale-up of manufacturing will require validation studies, which the FDA must review and approve. If we are unable to successfully increase the manufacturing capacity for a product, the regulatory approval or commercial launch of any products may be delayed or there may be a shortage in supply and our business may be harmed as a result.

We depend on skilled and experienced personnel and management leadership to operate our business effectively and maintain our investor relationships. If we are unable to retain, recruit and hire such key employees, our ability to manage our business will be harmed, which would impair our future revenue and profitability.

Our success largely depends on the skills, experience and efforts of our officers and other key employees. The efforts of our officers and other key employees are critical to us as we continue to focus on the commercialization of our Avenova product. The loss of any of our senior management team members could disrupt our business, affect key partnerships and impair our future revenue and profitability. In particular, our Chief Executive Officer, Mark M. Sieczkarek, is critical to our successful commercialization of Avenova, and we have entered into an executive employment agreement with him, expiring on June 1, 2018.

We intend to rely on a limited number of pharmaceutical wholesalers to distribute Avenova.

We intend to rely primarily upon a limited number of pharmaceutical wholesalers in connection with the distribution of Avenova. If we are unable to establish or maintain our business relationships with these pharmaceutical wholesalers on commercially acceptable terms, it could have a material adverse effect on our sales and may prevent us from achieving profitability.

If we grow and fail to manage our growth effectively, we may be unable to execute our business plan.

Our future growth, if any, may cause a significant strain on our management and our operational, financial and other resources. Our ability to grow and manage our growth effectively will require us to implement and improve our operational, financial and management information systems and to expand, train, manage and motivate our employees. These demands may require the hiring of additional management personnel and the development of additional expertise by management. Any increase in resources devoted to research and product development without a corresponding increase in our operational, financial and management information systems could have a material adverse effect on our business, financial condition, and results of operations.

Government agencies may establish usage guidelines that directly apply to our products or proposed products or change legislation or regulations to which we are subject.

Government usage guidelines typically address matters such as usage and dose, among other factors. Application of these guidelines could limit the use of our products and products that we may develop. In addition, there can be no assurance that government regulations applicable to our products or proposed products or the interpretation thereof will not change and thereby prevent the marketing of some or all of our products for a period of time or permanently. The FDA's policies may change and additional government regulations may be enacted that could modify, prevent or delay regulatory approval of our product candidates. We cannot predict the likelihood, nature or extent of adverse government regulation that may arise from future legislation or administrative action, either in the U.S. or in other countries.

We and our collaborators are and will be subject to ongoing FDA obligations and continued regulatory review, such as continued safety reporting requirements, and we and our collaborators may also be subject to additional FDA post-marketing obligations or new regulations, all of which may result in significant expense and which may limit our ability to commercialize our medical devices and drug products and candidates.

Any regulatory approvals that we receive may also be subject to limitations on the indicated uses for which the product may be marketed or contain requirements for potentially costly post-marketing follow-up studies. The FDA may require us to commit to perform lengthy post marketing studies, which would require us to expend additional resources and thus could have an adverse effect on our operating results and financial condition. In addition, if the FDA approves any of our drug product candidates, the labeling, packaging, adverse event reporting, storage, advertising, promotion and record keeping for the drug will be subject to extensive regulatory requirements. The subsequent discovery of previously unknown problems with the drugs, including adverse events of unanticipated severity or frequency, may result in restrictions on the marketing of the drugs or the withdrawal of the drugs from the market. If we are not able to maintain regulatory compliance, we may be subject to fines, suspension or withdrawal of regulatory approvals, product recalls, seizure of products, operating restrictions and criminal prosecution. Any of these events could prevent us from marketing any products we may develop and our business could suffer.

Our past clinical trials may expose us to expensive liability claims, and we may not be able to maintain liability insurance on reasonable terms or at all.

Even though we have concluded all our clinical trials, an inherent risk remains. If a claim were to arise in the future based on our past clinical trial activity, we would most likely incur substantial expenses. Our inability to obtain sufficient clinical trial insurance at an acceptable cost to protect us against potential clinical trial claims could prevent or inhibit the commercialization of our product candidates. Our current clinical trial insurance covers individual and aggregate claims up to \$5.0 million. This insurance may not cover all claims and we may not be able to obtain additional insurance coverage at a reasonable cost, if at all, in the future. In addition, if our agreements with any future corporate collaborators entitle us to indemnification against product liability losses and clinical trial liability, such indemnification may not be available or adequate should any claim arise.

The pharmaceutical and biopharmaceutical industries are characterized by patent litigation, and any litigation or claim against us may impose substantial costs on us, place a significant strain on our financial resources, divert the attention of management from our business and harm our reputation.

There has been substantial litigation in the pharmaceutical and biopharmaceutical industries with respect to the manufacture, use and sale of new products that are the subject of conflicting patent rights. For the most part, these lawsuits relate to the validity, enforceability and infringement of patents. Generic companies are encouraged to challenge the patents of pharmaceutical products in the United States because a successful challenger can obtain six months of exclusivity as a generic product under the Hatch-Waxman Act. We expect that we will rely upon patents, trade secrets, know-how, continuing technological innovations and licensing opportunities to develop and maintain our competitive position, and we may initiate claims to defend our intellectual property rights as a result. Other parties may have issued patents or be issued patents that may prevent the sale of our products or know-how or require us to license such patents and pay significant fees or royalties to produce our products. In addition, future patents may be issued to third parties which our technology may infringe. Because patent applications can take many years to issue, there may be applications now pending of which we are unaware that may later result in issued patents that our products infringe.

Intellectual property litigation, regardless of outcome, is expensive and time-consuming, would divert management's attention from our business and could have a material negative effect on our business, operating results or financial condition. If such a dispute were to be resolved against us, we might be required to pay substantial damages, including treble damages and attorney's fees if we were found to have willfully infringed a third party's patent, to the party claiming infringement, to develop non-infringing technology, to stop selling any products we develop, to cease using technology that contains the allegedly infringing intellectual property or to enter into royalty or license agreements that may not be available on acceptable or commercially practical terms, if at all. Our failure to develop non-infringing technologies or license the proprietary rights on a timely basis could harm our business. Modification of any products we develop or development of new products thereafter could require us to conduct additional clinical trials and to revise our filings with the FDA and other regulatory bodies, which would be time-consuming and expensive. In addition, parties making infringement claims may be able to obtain an injunction that would prevent us from selling any products we develop, which could harm our business.

If product liability lawsuits are brought against us, they could result in costly litigation and significant liabilities.

Despite all reasonable efforts to ensure safety, it is possible that we or our collaborators will sell products, including Avenova, NeutroPhase, CelleRx, and Intelli-Case, which are defective, to which patients react in an unexpected manner, or which are alleged to have side effects. The manufacture and sale of such products may expose us to potential liability, and the industries in which our products are likely to be sold have been subject to significant product liability litigation. Any claims, with or without merit, could result in costly litigation, reduced sales, significant liabilities and diversion of our management's time and attention, and could have a material adverse effect on our financial condition, business and results of operations.

If a product liability claim is brought against us, we may be required to pay legal and other expenses to defend the claim and, if the claim is successful, damage awards may not be covered, in whole or in part, by our insurance. We may not have sufficient capital resources to pay a judgment, in which case our creditors could levy against our assets. We may also be obligated to indemnify our collaborators and make payments to other parties with respect to product liability damages and claims. Defending any product liability claims, or indemnifying others against those claims, could require us to expend significant financial and managerial resources.

If we are unable to protect our intellectual property, our competitors could develop and market products similar to ours that may reduce demand for our products.

Our success, competitive position and potential future revenues will depend in significant part on our ability to protect our intellectual property. We rely on the patent, trademark, copyright and trade secret laws of the U.S. and other countries, as well as confidentiality and nondisclosure agreements, to protect our intellectual property rights. We apply for patents covering our technologies as we deem appropriate.

There is no assurance that any patents issued to us or licensed or assigned to us by third parties will not be challenged, invalidated, found unenforceable or circumvented, or that the rights granted thereunder will provide competitive advantages to us. If we or our collaborators or licensors fail to file, prosecute or maintain certain patents, our competitors could market products that contain features and clinical benefits similar to those of any products we develop, and demand for our products could decline as a result. Further, although we have taken steps to protect our intellectual property and proprietary technology, third parties may be able to design around our patents or, if they do infringe upon our technology, we may not be successful or have sufficient resources in pursuing a claim of infringement against those third parties. Any pursuit of an infringement claim by us may involve substantial expense and diversion of management attention.

We also rely on trade secrets and proprietary know-how that we seek to protect by confidentiality agreements with our employees, consultants and collaborators. If these agreements are not enforceable, or are breached, we may not have adequate remedies for any breach, and our trade secrets and proprietary know-how may become known or be independently discovered by competitors.

We operate in the State of California. The laws of the State prevent us from imposing a delay before an employee who may have access to trade secrets and proprietary know-how can commence employment with a competing company. Although we may be able to pursue legal action against competitive companies improperly using our proprietary information, we may not be aware of any use of our trade secrets and proprietary know-how until after significant damage has been done to our company.

Furthermore, the laws of foreign countries may not protect our intellectual property rights to the same extent as the laws of the U.S. If our intellectual property does not provide significant protection against foreign or domestic competition, our competitors, including generic manufacturers, could compete more directly with us, which could result in a decrease in our market share. All of these factors may harm our competitive position.

Our current patent portfolio could leave us vulnerable to larger companies who have the resources to develop and market competing products.

We aggressively protect and enforce our patent rights worldwide. However, certain risks remain. There is no assurance that patents will issue from any of our applications or, for those patents we have or that do issue, that the claims will be sufficiently broad to protect our proprietary rights, or that it will be economically possible to pursue sufficient numbers of patents to afford significant protection. For example, we do not have any composition of matter patent directed to the Neutrox composition. This relatively weak patent portfolio leaves us vulnerable to competitors who wish to compete in the same marketplace with similar products. If a potential competitor introduces a formulation similar to Avenova or NeutroPhase with a similar composition that does not fall within the scope of the method of treatment/manufacture claims, then we or a potential marketing partner would be unable to rely on the allowed claims to protect its market position for the method of using the Avenova or NeutroPhase composition, and any revenues arising from such protection would be adversely impacted.

If physicians and patients do not accept and use our products, we will not achieve sufficient product revenues and our business will suffer.

Even if the FDA has cleared or approves product candidates that we develop, physicians and patients may not accept and use them. Acceptance and use of our products may depend on a number of factors including:

- perceptions by members of the healthcare community, including physicians, about the safety and effectiveness of our products;
- published studies demonstrating the cost-effectiveness of our products relative to competing products;
- availability of reimbursement for our products from government or healthcare payers; and
- effectiveness of marketing and distribution efforts by us and our licensees and distributors, if any.

The failure of any of our products to find market acceptance would harm our business and could require us to seek additional financing.

ITEM 2. UNREGISTERED SALES OF EQUITY SECURITIES AND USE OF PROCEEDS

None.

ITEM 5. OTHER INFORMATION

On November 13, 2017, the Company entered into a share purchase agreement (the "Purchase Agreement") for the sale of an aggregate of 2,400,000 shares of the Company's common stock, par value \$0.01 per share (the "Shares"), to an accredited investor for an aggregate purchase price of \$10.32 million (the "Private Placement"). The Private Placement is expected to close in January 2018, following the satisfaction of certain closing conditions specified in the Purchase Agreement.

The purchaser is Ch-gemstone Capital (Beijing) Co., Ltd. (the "Purchaser"). China Kington Asset Management Co. Ltd. (the "Placement Agent") has agreed to serve as placement agent in exchange for a commission equal to six percent (6%) of the gross proceeds received by the Company upon closing of the Private Placement. A description of the material relationships between the Company and the Placement Agent was previously reported in Item 5.02 of the Company's Current Report on Form 8-K filed with the SEC on January 29, 2016 (regarding the election of two new directors nominated by the Placement Agent) and Item 1.01 of the Company's Current Report on Form 8-K filed with the SEC on January 6, 2016 (regarding the Company's December 2015 and January 2016 bridge loan), and the information set forth in such Items is incorporated herein by reference.

The Purchase Agreement contains customary representations, warranties and agreements by the Company, customary conditions to closing, indemnification obligations of the Company and the Purchaser (including for certain liabilities under the Securities Act of 1933, as amended (the "Securities Act")), and other obligations of the parties and termination provisions. The foregoing description of the terms of the Purchase Agreement does not purport to be complete and is qualified in its entirety by reference to the Purchase Agreement, which is attached hereto as [Exhibit 10.1](#) and is incorporated herein by reference. The Purchase Agreement has been included to provide investors and security holders with information regarding its terms, and it is not intended to provide any other factual information about the Company. The representations, warranties and covenants contained in the Purchase Agreement were made only for purposes of such agreement as of a specific date and were solely for the benefit of the parties to such agreement. The representations and warranties may have been made for the purposes of allocating contractual risk between the parties to the agreement instead of establishing these matters as facts, and may be subject to standards of materiality applicable to the contracting parties that differ from those applicable to investors.

The Shares to be issued by the Company pursuant to the Purchase Agreement have not been registered under the Securities Act and may not be offered or sold in the United States absent registration or an applicable exemption from registration requirements. The Company is relying on the private placement exemption from registration provided by Section 4(a)(2) of the Securities Act and by Rule 506 of Regulation D, and in reliance on similar exemptions under applicable state laws.

ITEM 6. EXHIBITS

See the Exhibit Index which follows the signature page of this Quarterly Report on Form 10-Q, which is incorporated herein by reference.

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.

Date: November 14, 2017

NOVABAY PHARMACEUTICALS, INC.

/s/ Mark M. Sieczkarek

Mark M. Sieczkarek
President and Chief Executive Officer
(principal executive officer)

Date: November 14, 2017

/s/ John J. McGovern

John J. McGovern
Chief Financial Officer
(principal financial officer)

EXHIBIT INDEX

Exhibit Number	Exhibit Description	Incorporation by Reference			Filed Herewith
		Form	Exhibit/ Form 8-K Item Reference	Filing Date	
3.1	Amended and Restated Certificate of Incorporation of NovaBay Pharmaceuticals, Inc.	8-K	3.1	6/29/2010	
3.2	Certificate of Amendment to Certificate of Incorporation of NovaBay Pharmaceuticals, Inc.	8-K	3.1	6/04/2014	
3.3	Certificate of Amendment to Certificate of Incorporation of NovaBay Pharmaceuticals, Inc.	8-K	3.1	10/02/2015	
3.4	Certificate of Amendment to Certificate of Incorporation of NovaBay Pharmaceuticals, Inc.	8-K	3.1	12/21/2015	
3.5	Bylaws of NovaBay Pharmaceuticals, Inc.	8-K	3.2	6/29/2010	
4.1	Form of Warrant issued in July 2011 offering.	10-K	4.1	3/23/2017	
4.2	Form of Warrant issued in March 2015 offering (issued with 15-month term).	10-K	4.2	3/23/2017	
4.3	Form of Warrant issued in March 2015 offering (issued with 5-year term).	10-K	4.3	3/23/2017	
4.4	Form of Warrant issued in October 2015 offering.	10-K	4.5	3/23/2017	
10.1	Share Purchase Agreement dated November 13, 2017.				X
10.2	Employment Agreement with Mark Sieczkarek, dated June 2, 2017.	8-K	10.1	6/6/2017	
10.3	Employment Agreement with John J. McGovern, dated July 6, 2017.	8-K	10.1	7/10/2017	
31.1	Certification of the Principal Executive Officer of NovaBay Pharmaceuticals, Inc., as required by Rule 13a-14(a) or Rule 15d-14(a).				X
31.2	Certification of the Principal Financial Officer of NovaBay Pharmaceuticals, Inc., as required by Rule 13a-14(a) or Rule 15d-14(a).				X
32.1 [†]	Certification by the Chief Executive Officer of NovaBay Pharmaceuticals, Inc., as required by Rule 13a-14(b) or 15d-14(b) and Section 1350 of Chapter 63 of Title 18 of the United States Code (18 U.S.C. 1350).				X
32.2 [†]	Certification by the Chief Financial Officer of NovaBay Pharmaceuticals, Inc., as required by Rule 13a-14(b) or 15d-14(b) and Section 1350 of Chapter 63 of Title 18 of the United States Code (18 U.S.C. 1350).				X
101.INS	XBRL Instance Document				X
101.SCH	XBRL Taxonomy Extension Schema Document				X
101.CAL	XBRL Taxonomy Extension Calculation Linkbase Document				X
101.DEF	XBRL Taxonomy Extension Definition Linkbase				X
101.LAB	XBRL Taxonomy Extension Labels Linkbase Document				X
101.PRE	XBRL Taxonomy Extension Presentation Linkbase Document				X

* XBRL information is furnished and not filed for purposes of Sections 11 and 12 of the Securities Act of 1933 and Section 18 of the Securities Exchange Act of 1934, is not part of any registration statement or prospectus to which it relates and is not incorporated or deemed to be incorporated by reference into any registration statement, prospectus or other document.

SHARE PURCHASE AGREEMENT

This Share Purchase Agreement (this "Agreement") is dated as of November 13, 2017, between NovaBay Pharmaceuticals, Inc., a Delaware corporation (the "Company"), and the purchaser identified on the signature page hereto (including its successors and assigns, the "Purchaser").

WHEREAS, subject to the terms and conditions set forth in this Agreement and pursuant to Section 4(a)(2) of the Securities Act of 1933, as amended (the "Securities Act"), and Rule 506 promulgated thereunder, the Company desires to issue and sell to the Purchaser, and the Purchaser desires to purchase from the Company, securities of the Company as more fully described in this Agreement.

NOW, THEREFORE, IN CONSIDERATION of the mutual covenants contained in this Agreement, and for other good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, the Company and the Purchaser agree as follows:

ARTICLE I
DEFINITIONS

1.1 Definitions. In addition to the terms defined elsewhere in this Agreement, for all purposes of this Agreement, the following terms have the meanings set forth in this Section 1.1:

"Action" shall have the meaning ascribed to such term in Section 3.1(j).

"Affiliate" means any Person that, directly or indirectly through one or more intermediaries, controls or is controlled by or is under common control with a Person, as such terms are used in and construed under Rule 405 under the Securities Act.

"Board of Directors" means the board of directors of the Company.

"Business Day" means any day except any Saturday, any Sunday, any day which is a federal legal holiday in the United States or any day on which banking institutions in the State of New York are authorized or required by law or other governmental action to close.

"Closing" means the closing of the purchase and sale of the Shares pursuant to Section 2.1.

"Closing Date" means the Trading Day on which all of the Transaction Documents have been executed and delivered by the applicable parties thereto, and all conditions precedent to (i) the Purchaser's obligations to pay the Subscription Amount set forth in Schedule I hereto and (ii) the Company's obligations to deliver the Shares set forth in Schedule I hereto, in each case, have been satisfied or waived.

"Commission" means the United States Securities and Exchange Commission.

"Common Stock" means the common stock of the Company, par value \$0.01 per share, and any other class of securities into which such securities may hereafter be reclassified or changed.

“Common Stock Equivalents” means any securities of the Company which would entitle the holder thereof to acquire at any time Common Stock, including, without limitation, any debt, preferred stock, right, option, warrant or other instrument that is at any time convertible into or exercisable or exchangeable for, or otherwise entitles the holder thereof to receive, Common Stock.

“Company Counsel” means Squire Patton Boggs (US) LLP, with offices located at 2550 M St., NW, Washington, DC 20037.

“Disclosure Schedules” shall have the meaning ascribed to such term in Section 3.1.

“Effective Date” means the earliest of the date that (a) all of the Shares have been sold pursuant to Rule 144 or may be sold pursuant to Rule 144 without the requirement for the Company to be in compliance with the current public information required under Rule 144 and without volume or manner-of-sale restrictions, or (b) following the one year anniversary of the Closing Date provided that a holder of Shares is not an Affiliate of the Company, all of the Shares may be sold pursuant to an exemption from registration under Section 4(a)(1) of the Securities Act without volume or manner-of-sale restrictions and Company counsel has delivered to such holders a standing written unqualified opinion that resales may then be made by such holders of the Shares pursuant to such exemption which opinion shall be in form and substance reasonably acceptable to such holders.

“Evaluation Date” shall have the meaning ascribed to such term in Section 3.1(s).

“Exchange Act” means the Securities Exchange Act of 1934, as amended, and the rules and regulations promulgated thereunder.

“FCPA” means the Foreign Corrupt Practices Act of 1977, as amended.

“FDA” shall have the meaning ascribed to such term in Section 3.1(jj).

“FDCA” shall have the meaning ascribed to such term in Section 3.1(jj).

“Fully Diluted Basis” means, as of any date of determination: (a) with respect to all capital stock of the Company, all issued and outstanding capital stock of the Company and all capital stock of the Company issuable upon the exercise or conversion of any outstanding Common Stock Equivalents as of such date, whether or not such Common Stock Equivalent is at the time exercisable or convertible; or (b) with respect to any specified type, class or series of capital stock of the Company, all issued and outstanding shares of capital stock of the Company designated as such type, class or series and all such designated shares of capital stock of the Company issuable upon the conversion or exercise of any outstanding Common Stock Equivalents as of such date, whether or not such Common Stock Equivalent is at the time exercisable or convertible.

“GAAP” shall have the meaning ascribed to such term in Section 3.1(h).

“Indebtedness” shall have the meaning ascribed to such term in Section 3.1(bb).

“Intellectual Property Rights” shall have the meaning ascribed to such term in Section 3.1(p).

“Legend Removal Date” shall have the meaning ascribed to such term in Section 4.1(c).

“Liens” means a lien, charge, pledge, security interest, encumbrance, right of first refusal, preemptive right, or other restriction.

“Material Adverse Effect” shall have the meaning assigned to such term in Section 3.1(b).

“Material Permits” shall have the meaning ascribed to such term in Section 3.1(n).

“Per Share Purchase Price” equals \$4.30, subject to adjustment for reverse and forward stock splits, stock dividends, stock combinations and other similar transactions of the Common Stock that occur after the date of this Agreement but prior to the Closing Date.

“Person” means an individual or corporation, partnership, trust, incorporated or unincorporated association, joint venture, limited liability company, joint stock company, government (or an agency or subdivision thereof) or other entity of any kind.

“Pharmaceutical Product” shall have the meaning ascribed to such term in Section 3.1(jj).

“Placement Agent” means China Kington Asset Management Co. Ltd.

“Proceeding” means an action, claim, suit, investigation or proceeding (including, without limitation, an informal investigation or partial proceeding, such as a deposition), whether commenced or threatened.

“Purchaser Party” shall have the meaning ascribed to such term in Section 4.8.

“Required Approvals” shall have the meaning ascribed to such term in Section 3.1(e).

“Rule 144” means Rule 144 promulgated by the Commission pursuant to the Securities Act, as such Rule may be amended or interpreted from time to time, or any similar rule or regulation hereafter adopted by the Commission having substantially the same purpose and effect as such Rule.

“Rule 424” means Rule 424 promulgated by the Commission pursuant to the Securities Act, as such Rule may be amended or interpreted from time to time, or any similar rule or regulation hereafter adopted by the Commission having substantially the same purpose and effect as such Rule.

“SEC Filings” shall have the meaning ascribed to such term in Section 3.1(h).

“SEC Reports” shall have the meaning ascribed to such term in Section 3.1(h).

“Securities Act” means the Securities Act of 1933, as amended, and the rules and regulations promulgated thereunder.

“Shares” means the shares of Common Stock issued or issuable to the Purchaser pursuant to this Agreement.

“Short Sales” means all “short sales” as defined in Rule 200 of Regulation SHO under the Exchange Act (but shall not be deemed to include the location and/or reservation of borrowable shares of Common Stock).

“Specified Purchaser” means Ch-gemstone Capital (Beijing) Co., Ltd. (中钰资本管理(北京)有限公司).

“Subscription Amount” means, as to the Purchaser, the aggregate amount to be paid for Shares purchased hereunder as specified next to the heading “Subscription Amount” in Schedule I in United States dollars and in immediately available funds.

“Subsidiary” means any subsidiary of the Company as set forth on Disclosure Schedule 3.1(a) and shall, where applicable, also include any direct or indirect subsidiary of the Company formed or acquired after the date hereof.

“Trading Day” means a day on which the principal Trading Market is open for trading.

“Trading Market” means any of the following markets or exchanges on which the Common Stock is listed or quoted for trading on the date in question: the NYSE American, the Nasdaq Capital Market, the Nasdaq Global Market, the Nasdaq Global Select Market, the New York Stock Exchange or the OTC Bulletin Board (or any successors to any of the foregoing).

“Transaction Documents” means this Agreement, all exhibits and schedules thereto and hereto and any other documents or agreements executed in connection with the transactions contemplated hereunder.

“Transfer Agent” means Computershare Trust Company N.A., the current transfer agent of the Company, with a mailing address of P.O. Box 30170, College Station, Texas 77842 and a telephone number of (800) 962-4284, and any successor transfer agent of the Company.

ARTICLE II PURCHASE AND SALE

2.1 Closing. On the Closing Date, upon the terms and subject to the conditions set forth herein, the Company agrees to sell, and the Purchaser agrees to purchase, such number of Shares set forth opposite the Purchaser’s name on Schedule I hereto. The Purchaser shall deliver to the Company, via wire transfer, immediately available funds equal to such Purchaser’s Subscription Amount as set forth in Schedule I hereto, and the Company shall deliver to the Purchaser its Shares, as determined pursuant to Section 2.2(a), and the Company and the Purchaser shall deliver the other items set forth in Section 2.2 deliverable at the Closing. Delivery to the Placement Agent of any item(s) required to be delivered to the Purchaser under this Agreement shall be sufficient to constitute delivery to the Purchaser. Upon satisfaction of the covenants and conditions set forth in Sections 2.2 and 2.3, the Closing shall occur at a location as the parties shall mutually agree.

2.2 Closing Deliveries.

- (a) On or prior to the Closing Date, the Company shall deliver or cause to be delivered to the Purchaser the following:
- (i) this Agreement duly executed by the Company;
 - (ii) a legal opinion of Company Counsel that the Shares, when sold and issued in accordance with this Agreement, will be validly issued, fully paid, and nonassessable;
 - (iii) a copy of the irrevocable instructions to the Transfer Agent instructing the Transfer Agent to deliver, on an expedited basis, a number of Shares, which shall be in either certificated or book-entry form, equal to such Purchaser's Subscription Amount set forth in Schedule I hereto divided by the Per Share Purchase Price, registered in the name of such Purchaser;
 - (iv) a compliance certificate, executed by the Chief Executive Officer and Chief Financial Officer of the Company, dated as of the Closing Date, to the effect that the conditions specified in subsections (i), (ii), and (iv) of Section 2.3(b) have been satisfied;
 - (v) a certificate of the Company's Secretary certifying as to (A) the Company's certificate of incorporation and bylaws, (B) the resolutions of the Board of Directors approving this Agreement and the transactions contemplated hereby, and (C) good standing certificates with respect to the Company from the applicable authority(ies) in Delaware and any other jurisdiction in which the Company is qualified to do business, dated a recent date before the Closing; and
 - (vi) such other information, certificates and documents as the Purchaser may reasonably request.
- (b) On or prior to the Closing Date, the Purchaser shall deliver or cause to be delivered to the Company the following:
- (i) this Agreement duly executed by such Purchaser; and
 - (ii) such Purchaser's Subscription Amount, as set forth in Schedule I hereto, by wire transfer to the account specified in this Agreement.

2.3 Closing Conditions.

- (a) The obligations of the Company hereunder in connection with the Closing are subject to the following conditions being met:
- (i) the accuracy in all material respects on the Closing Date of the representations and warranties of the Purchaser contained herein (unless as of a specific date therein in which case they shall be accurate in all material respects as of such date);
-

(ii) all obligations, covenants and agreements of the Purchaser required to be performed at or prior to the Closing Date shall have been performed in all material respects;

(iii) the Funds Transfer Approvals shall have been obtained by the Purchaser;

(iv) the delivery by the Purchaser of the items set forth in Section 2.2(b) of this Agreement; and

(v) no temporary restraining order, preliminary or permanent injunction or other order or decree, and no other legal restraint or prohibition, shall exist which questions the validity of this Agreement or the right of the Company or the Purchaser, as the case may be, to enter into this Agreement or prevents or could reasonably be expected to prevent the consummation of the transactions contemplated by this Agreement, nor shall any litigation or court or administrative proceeding have been commenced or threatened with respect to the foregoing.

(b) The respective obligations of the Purchaser hereunder in connection with the Closing are subject to the following conditions being met:

(i) the accuracy in all material respects when made and on the Closing Date of the representations and warranties of the Company contained herein (unless as of a specific date therein);

(ii) all obligations, covenants and agreements of the Company required to be performed at or prior to the Closing Date shall have been performed;

(iii) the delivery by the Company of the items set forth in Section 2.2(a) of this Agreement;

(iv) there shall have been no Material Adverse Effect with respect to the Company since the date hereof; and

(v) from the date hereof to the Closing Date, trading in the Common Stock shall not have been suspended by the Commission or the Company's principal Trading Market (without the ability of the Company to list on another exchange or quotation system), and, at any time prior to the Closing Date, trading in securities generally as reported by Bloomberg L.P. shall not have been suspended or limited, or minimum prices shall not have been established on securities whose trades are reported by such service, or on any Trading Market, nor shall a banking moratorium have been declared either by the United States or New York State authorities nor shall there have occurred any material outbreak or escalation of hostilities or other national or international calamity of such magnitude in its effect on the Company that it results in a Material Adverse Effect.

ARTICLE III
REPRESENTATIONS AND WARRANTIES

3.1 Representations and Warranties of the Company. Except as set forth in the disclosure schedules separately delivered to the Purchaser concurrently herewith (“Disclosure Schedules”), which Disclosure Schedules shall qualify any representation or warranty otherwise made herein to the extent of the disclosure contained in the corresponding section of the Disclosure Schedules, the Company hereby makes the following representations and warranties to the Purchaser:

(a) Subsidiaries. All of the material direct and indirect subsidiaries of the Company are set forth in the SEC Reports. Except as set forth in the SEC Reports, the Company owns, directly or indirectly, all of the capital stock or other equity interests of each Subsidiary free and clear of any Liens, and all of the issued and outstanding shares of capital stock of each Subsidiary are validly issued and are fully paid, non-assessable and free of preemptive and similar rights to subscribe for or purchase securities.

(b) Organization and Qualification. The Company and each of the Subsidiaries is an entity duly incorporated or otherwise organized, validly existing and in good standing under the laws of the jurisdiction of its incorporation or organization, with the requisite power and authority to own and use its properties and assets and to carry on its business as currently conducted and described in the SEC Filings. Neither the Company nor any Subsidiary is in violation or default of any of the provisions of its respective certificate or articles of incorporation, bylaws or other organizational or charter documents. Each of the Company and the Subsidiaries is duly qualified to conduct business and is in good standing as a foreign corporation or other entity in each jurisdiction in which the nature of the business conducted or property owned by it makes such qualification necessary, except where the failure to be so qualified or in good standing, as the case may be, could not have or reasonably be expected to result in: (i) a material adverse effect on the legality, validity or enforceability of any Transaction Document, (ii) a material adverse effect on the results of operations, assets, business, prospects or condition (financial or otherwise) of the Company and the Subsidiaries, taken as a whole, or (iii) a material adverse effect on the Company’s ability to perform in any material respect on a timely basis its obligations under any Transaction Document (any of (i), (ii) or (iii), a “Material Adverse Effect”; provided, however, that changes in the trading price of the Common Stock shall not, in and of itself, constitute a Material Adverse Effect) and no Proceeding has been instituted in any such jurisdiction revoking, limiting or curtailing or seeking to revoke, limit or curtail such power and authority or qualification.

(c) Authorization; Enforcement. The Company has the requisite corporate power and authority to enter into and to consummate the transactions contemplated by this Agreement and each of the other Transaction Documents and otherwise to carry out its obligations hereunder and thereunder. The execution and delivery of each of this Agreement and the other Transaction Documents by the Company and the consummation by it of the transactions contemplated hereby and thereby have been duly authorized by all necessary action on the part of the Company and no further action is required by the Company, the Board of Directors or the Company’s stockholders in connection herewith or therewith other than in connection with the Required Approvals. This Agreement and each other Transaction Document to which it is a party has been (or upon delivery will have been) duly executed by the Company and, when delivered in accordance with the terms hereof and thereof, will constitute the valid and binding obligation of the Company enforceable against the Company in accordance with its terms, except: (i) as limited by general equitable principles and applicable bankruptcy, insolvency, reorganization, moratorium and other laws of general application affecting enforcement of creditors’ rights generally, (ii) as limited by laws relating to the availability of specific performance, injunctive relief or other equitable remedies and (iii) insofar as indemnification and contribution provisions may be limited by applicable law.

(d) No Conflicts. The execution, delivery and performance by the Company of this Agreement and the other Transaction Documents to which it is a party, the issuance and sale of the Shares and the consummation by it of the transactions contemplated hereby and thereby do not and will not: (i) conflict with or violate any provision of the Company's or any Subsidiary's certificate or articles of incorporation, bylaws or other organizational or charter documents, (ii) conflict with, or constitute a default (or an event that with notice or lapse of time or both would become a default) under, result in the creation of any Lien upon any of the properties or assets of the Company or any Subsidiary, or give to others any rights of termination, amendment, acceleration or cancellation (with or without notice, lapse of time or both) of, any agreement, credit facility, debt or other instrument (evidencing a Company or Subsidiary debt or otherwise) or other understanding to which the Company or any Subsidiary is a party or by which any property or asset of the Company or any Subsidiary is bound or affected, or (iii) subject to receipt of the Required Approvals, conflict with or result in a violation of any law, rule, regulation, order, judgment, injunction, decree or other restriction of any court or governmental authority to which the Company or a Subsidiary is subject (including federal and state securities laws and regulations), or by which any property or asset of the Company or a Subsidiary is bound or affected; except in the case of each of clauses (ii) and (iii), such as could not have or reasonably be expected to result in a Material Adverse Effect.

(e) Filings, Consents and Approvals. The Company is not required to obtain any consent, waiver, authorization or order of, give any notice to, or make any filing or registration with, any court or other federal, state, local or other governmental authority or other Person in connection with the execution, delivery and performance by the Company of the Transaction Documents, other than: (i) the filings required pursuant to Section 4.4 of this Agreement, (ii) the notice and/or application(s) to each applicable Trading Market for the issuance and sale of the Shares and the listing of the Shares for trading thereon in the time and manner required thereby, and (iii) the filing of Form D with the Commission and such filings as are required to be made under applicable state securities laws (collectively, the "Required Approvals").

(f) Issuance of the Shares. The Shares are duly authorized and, when issued and paid for in accordance with the applicable Transaction Documents, will be duly and validly issued, fully paid and nonassessable, free and clear of all Liens other than restrictions on transfer provided for in the Transaction Documents. The Company has reserved from its duly authorized capital stock the maximum number of shares of Common Stock issuable pursuant to this Agreement.

(g) Capitalization. The authorized capital stock of the Company consists of 240,000,000 shares of Common Stock, of which 15,368,304 shares are outstanding as of the date hereof (prior to the issuance of the Shares) and 5,000,000 shares of Preferred Stock, none of which are outstanding as of the date hereof, including the number of shares of Common Stock owned beneficially, and of record, by Affiliates of the Company as disclosed in the Company's most recent SEC Reports and such beneficial ownership has not materially changed since the date of such SEC Reports. The Company has not issued any capital stock since its most recently filed periodic report under the Exchange Act, other than pursuant to the exercise of employee stock options under the Company's stock option plans, the issuance of shares of Common Stock to employees pursuant to the Company's employee stock purchase plans and pursuant to the conversion and/or exercise of Common Stock Equivalents outstanding as of the date of the most recently filed periodic report under the Exchange Act. No Person has any right of first refusal, preemptive right, right of participation, or any similar right to participate in the transactions contemplated by the Transaction Documents. Except (i) for options to purchase Common Stock or other equity awards (including restricted stock units) issued to employees and members of the Company's Board of Directors pursuant to the equity compensation plans or arrangements disclosed in the SEC Reports, (ii) for securities exercisable for, or convertible into or exchangeable for any shares of capital stock of the Company disclosed in the SEC Reports, and (iii) as a result of the purchase and sale of the Shares, there are no outstanding options, warrants, scrip rights to subscribe to, calls or commitments of any character whatsoever relating to, or securities, rights or obligations convertible into or exercisable or exchangeable for, or giving any Person any right to subscribe for or acquire any shares of Common Stock, or contracts, commitments, understandings or arrangements by which the Company or any Subsidiary is or may become bound to issue additional shares of Common Stock or Common Stock Equivalents. The issuance and sale of the Shares will not obligate the Company to issue shares of Common Stock or other securities to any Person (other than the Purchasers). All of the outstanding shares of capital stock of the Company are duly authorized, validly issued, fully paid and nonassessable, have been issued in compliance with all federal and state securities laws, and none of such outstanding shares was issued in violation of any preemptive rights or similar rights to subscribe for or purchase securities. No further approval or authorization of any stockholder, the Board of Directors or others is required for the issuance and sale of the Shares. There are no stockholders agreements, voting agreements or other agreements with respect to the Company's capital stock to which the Company is a party or, to the knowledge of the Company, between or among any of the Company's stockholders.

(h) SEC Filings: Financial Statements. The Company has filed all reports, schedules, forms, statements and other documents required to be filed by the Company under the Securities Act and the Exchange Act, including pursuant to Section 13(a) or 15(d) thereof, for the two years preceding the date hereof (or such shorter period as the Company was required by law or regulation to file such material) (the foregoing materials, including the exhibits thereto and documents incorporated by reference therein, being collectively referred to herein as the "SEC Reports") on a timely basis or has received a valid extension of such time of filing and has filed any such SEC Reports prior to the expiration of any such extension, except for those filings made pursuant to Section 16 of the Exchange Act. As of their respective dates, the SEC Reports complied in all material respects with the requirements of the Securities Act and the Exchange Act, as applicable, and none of the SEC Reports, when filed, contained any untrue statement of a material fact or omitted to state a material fact required to be stated therein or necessary in order to make the statements therein, in the light of the circumstances under which they were made, not misleading. Each registration statement and any amendment thereto filed by the Company pursuant to the Securities Act and the rules and regulations thereunder, as of the date such statement or amendment became effective, complied in all material respects with the requirements of the Securities Act and did not, when filed, contain any untrue statement of a material fact or omit to state any material fact required to be stated therein or necessary in order to make the statements made therein, in light of the circumstances under which they were made, not misleading; and each prospectus filed pursuant to Rule 424(b) under the Securities Act, as of its issue date and as of the closing of any sale of securities pursuant thereto, did not, when filed, contain any untrue statements of a material fact or omit to state any material fact required to be stated therein or necessary in order to make the statements made therein, in light of the circumstances under which they were made, not misleading (the registration statements, amendments and prospectuses referred to in this sentence, together with the SEC Reports, the "SEC Filings"). The Company has never been an issuer subject to Rule 144(i) under the Securities Act. The financial statements of the Company included in the SEC Filings comply in all material respects with applicable accounting requirements and the rules and regulations of the Commission with respect thereto as in effect at the time of filing. Such financial statements have been prepared in accordance with United States generally accepted accounting principles applied on a consistent basis during the periods involved ("GAAP"), except as may be otherwise specified in such financial statements or the notes thereto and except that unaudited financial statements may not contain all footnotes required by GAAP, and fairly present in all material respects the financial position of the Company and its consolidated Subsidiaries as of and for the dates thereof and the results of operations and cash flows for the periods then ended, subject, in the case of unaudited statements, to normal, immaterial, year-end audit adjustments.

(i) Material Changes; Undisclosed Events, Liabilities or Developments. Since the date of the latest audited financial statements included within the SEC Filings, except as specifically disclosed in a subsequent SEC Report filed at least one Trading Day prior to the date hereof: (i) there has been no event, occurrence or development that has had or that could reasonably be expected to result in a Material Adverse Effect, (ii) the Company has not incurred any liabilities (contingent or otherwise) other than (A) trade payables and accrued expenses incurred in the ordinary course of business consistent with past practice and (B) liabilities not required to be reflected in the Company's financial statements pursuant to GAAP or disclosed in filings made with the Commission, (iii) the Company has not altered its method of accounting, (iv) the Company has not declared or made any dividend or distribution of cash or other property to its stockholders or purchased, redeemed or made any agreements to purchase or redeem any shares of its capital stock and (v) the Company has not issued any equity securities to any officer, director or Affiliate, except pursuant to existing Company stock option plans. The Company does not have pending before the Commission any request for confidential treatment of information. Except for the issuance of the Shares contemplated by this Agreement, no event, liability, fact, circumstance, occurrence or development has occurred or exists, or is reasonably expected to occur or exist, with respect to the Company or its Subsidiaries or their respective businesses, properties, operations, assets or financial condition, that would be required to be disclosed by the Company under applicable securities laws if the Company were publicly offering securities pursuant to an effective registration statement under the Securities Act at the time this representation is made or deemed made that has not been publicly disclosed at least one Trading Day prior to the date that this representation is made.

(j) Litigation. Except for the litigation set forth in Disclosure Schedule 3.1(j), there is no action, suit, inquiry, notice of violation, proceeding or investigation pending or, to the knowledge of the Company, threatened against or affecting the Company, any Subsidiary or any of their respective properties before or by any court, arbitrator, governmental or administrative agency or regulatory authority (federal, state, county, local or foreign) (collectively, an "Action") which (i) adversely affects or challenges the legality, validity or enforceability of any of the Transaction Documents or the Shares or (ii) could, if there were an unfavorable decision, have or reasonably be expected to result in a Material Adverse Effect. Except for the litigation set forth in Disclosure Schedule 3.1(j), neither the Company nor any Subsidiary, nor any director or officer thereof, is or has been the subject of any Action involving a claim of violation of or liability under federal or state securities laws or a claim of breach of fiduciary duty. There has not been, and to the knowledge of the Company, there is not pending or contemplated, any investigation by the Commission involving the Company or any current or former director or officer of the Company. The Commission has not issued any stop order or other order suspending the effectiveness of any registration statement filed by the Company or any Subsidiary under the Exchange Act or the Securities Act.

(k) Labor Relations. No labor dispute exists or, to the knowledge of the Company, is imminent with respect to any of the employees of the Company, which could reasonably be expected to result in a Material Adverse Effect. None of the Company's or its Subsidiaries' employees is a member of a union that relates to such employee's relationship with the Company or such Subsidiary, and neither the Company nor any of its Subsidiaries is a party to a collective bargaining agreement, and the Company and its Subsidiaries believe that their relationships with their employees are good. To the knowledge of the Company, no executive officer of the Company or any Subsidiary is, or is now expected to be, in violation of any material term of any employment contract, confidentiality, disclosure or proprietary information agreement or non-competition agreement, or any other contract or agreement or any restrictive covenant in favor of any third party, and the continued employment of each such executive officer does not subject the Company or any of its Subsidiaries to any liability with respect to any of the foregoing matters. The Company and its Subsidiaries are in compliance with all U.S. federal, state, local and foreign laws and regulations relating to employment and employment practices, terms and conditions of employment and wages and hours, except where the failure to be in compliance could not, individually or in the aggregate, reasonably be expected to have a Material Adverse Effect.

(l) Compliance. Neither the Company nor any Subsidiary: (i) is in material default under or in violation of (and no event has occurred that has not been waived that, with notice or lapse of time or both, would result in a material default by the Company or any Subsidiary under), nor has the Company or any Subsidiary received notice of a claim that it is in material default under or that it is in violation of, any indenture, loan or credit agreement or any other agreement or instrument to which it is a party or by which it or any of its properties is bound (whether or not such material default or violation has been waived), (ii) is in violation of any judgment, decree, or order of any court, arbitrator or other governmental authority or (iii) except as provided on Disclosure Schedule 3.1(x), is or has been in violation of any statute, rule, ordinance or regulation of any governmental authority, including without limitation all foreign, federal, state and local laws relating to taxes, environmental protection, occupational health and safety, product quality and safety and employment and labor matters, except in each case as could not have or reasonably be expected to result in a Material Adverse Effect.

(m) Environmental Matters. The Company is in compliance with all foreign, federal, state and local rules, laws and regulations relating to the use, treatment, storage and disposal of hazardous or toxic substances or waste and protection of health and safety or the environment which are applicable to its business. To the Company's knowledge, there has been no storage, generation, transportation, handling, treatment, disposal, discharge, emission, or other release of any kind of toxic or other wastes or other hazardous substances by, due to, or caused by the Company (or, to the Company's knowledge, any other entity for whose acts or omissions the Company is or may be liable) upon any of the property now or previously owned or leased by the Company, or upon any other property, in violation of any statute or any ordinance, rule, regulation, order, judgment, decree or permit or which would, under any statute or any ordinance, rule (including rule of common law), regulation, order, judgment, decree or permit, give rise to any liability. There has been no disposal, discharge, emission or other release of any kind onto such property or into the environment surrounding such property of any toxic or other wastes or other hazardous substances with respect to which the Company has knowledge.

(n) Regulatory Permits. The Company and the Subsidiaries possess all certificates, authorizations and permits issued by the appropriate federal, state, local or foreign regulatory authorities necessary to conduct their respective businesses as described in the SEC Filings, except where the failure to possess such permits could not reasonably be expected to result in a Material Adverse Effect ("Material Permits"), and neither the Company nor any Subsidiary has received any notice of proceedings relating to the revocation or modification of any Material Permit.

(o) Title to Assets. The Company and the Subsidiaries have good and marketable title in fee simple to all real property owned by them and good and marketable title in all personal property owned by them that is material to the business of the Company and the Subsidiaries, in each case free and clear of all Liens, except for (i) Liens as do not materially affect the value of such property and do not materially interfere with the use made and proposed to be made of such property by the Company and the Subsidiaries, and (ii) Liens for the payment of federal, state or other taxes, for which appropriate reserves have been made therefor in accordance with GAAP and the payment of which is neither delinquent nor subject to penalties. Any real property and facilities held under lease by the Company and the Subsidiaries are held by them under valid, subsisting and enforceable leases with which the Company and the Subsidiaries are in compliance.

(p) Intellectual Property. The Company and the Subsidiaries have, or have rights to use, all patents, patent applications, trademarks, trademark applications, service marks, trade names, trade secrets, inventions, copyrights, licenses and other intellectual property rights and similar rights as described in the SEC Filings as necessary or required for use in connection with their respective businesses and which the failure to so have could have a Material Adverse Effect (collectively, the "Intellectual Property Rights"). None of, and neither the Company nor any Subsidiary has received a notice (written or otherwise) that any of the Intellectual Property Rights have expired, terminated or been abandoned, or is expected to expire or terminate or be abandoned, within two (2) years from the date of this Agreement. Neither the Company nor any Subsidiary has received, since the date of the latest audited financial statements included within the SEC Filings, a written notice of a claim or otherwise has any knowledge that the Intellectual Property Rights violate or infringe upon the rights of any Person, except as could not have or reasonably be expected not to have a Material Adverse Effect. To the knowledge of the Company, all such Intellectual Property Rights are enforceable and there is no existing infringement by another Person of any of the Intellectual Property Rights. The Company and its Subsidiaries have taken reasonable security measures to protect the secrecy, confidentiality and value of all of their intellectual properties, except where the failure to do so could not, individually or in the aggregate, reasonably be expected to have a Material Adverse Effect.

(q) Insurance. The Company and the Subsidiaries are insured by insurers of recognized financial responsibility against such losses and risks and in such amounts as are prudent and customary in the businesses in which the Company and the Subsidiaries are engaged, including, but not limited to, directors and officers insurance coverage at least equal to the aggregate Subscription Amount. Neither the Company nor any Subsidiary has any reason to believe that it will not be able to renew its existing insurance coverage as and when such coverage expires or to obtain similar coverage from similar insurers as may be necessary to continue its business without a significant increase in cost.

(r) Transactions With Affiliates and Employees. Except as set forth in the SEC Filings, none of the officers or directors of the Company or any Subsidiary and, to the knowledge of the Company, none of the employees of the Company or any Subsidiary is presently a party to any transaction with the Company or any Subsidiary (other than for services as employees, officers and directors), including any contract, agreement or other arrangement providing for the furnishing of services to or by, providing for rental of real or personal property to or from, providing for the borrowing of money from or lending of money to or otherwise requiring payments to or from any officer, director or such employee or, to the knowledge of the Company, any entity in which any officer, director, or any such employee has a substantial interest or is an officer, director, trustee, stockholder, member or partner, in each case in excess of \$120,000 other than for: (i) payment of salary or consulting fees for services rendered, (ii) reimbursement for expenses incurred on behalf of the Company, (iii) other employee benefits, including stock option agreements under any stock option plan of the Company, and (iv) purchases pursuant to this Agreement.

(s) Sarbanes-Oxley; Internal Accounting Controls. Except as set forth in the SEC Reports, the Company and the Subsidiaries are in compliance with any and all applicable requirements of the Sarbanes-Oxley Act of 2002 that are effective as of the date hereof, and any and all applicable rules and regulations promulgated by the Commission thereunder that are effective as of the date hereof and as of the Closing Date. The Company maintains a system of internal accounting controls sufficient to provide reasonable assurance that: (i) transactions are executed in accordance with management's general or specific authorizations, (ii) transactions are recorded as necessary to permit preparation of financial statements in conformity with GAAP and to maintain asset accountability, (iii) access to assets is permitted only in accordance with management's general or specific authorization, and (iv) the recorded accountability for assets is compared with the existing assets at reasonable intervals and appropriate action is taken with respect to any differences. The Company has established disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) for the Company and designed such disclosure controls and procedures to ensure that information required to be disclosed by the Company in the reports it files or submits under the Exchange Act is recorded, processed, summarized and reported, within the time periods specified in the Commission's rules and forms. The Company's certifying officers have evaluated the effectiveness of the disclosure controls and procedures of the Company as of the end of the period covered by the most recently filed periodic report under the Exchange Act (such date, the "Evaluation Date"). The Company presented in its most recently filed periodic report under the Exchange Act the conclusions of the certifying officers about the effectiveness of the disclosure controls and procedures based on their evaluations as of the Evaluation Date. Since the Evaluation Date, there have been no changes in the internal control over financial reporting (as such term is defined in the Exchange Act) of the Company that has materially affected, or is reasonably likely to materially affect, the internal control over financial reporting of the Company.

(t) Certain Fees. No brokerage or finder's fees or commissions are or will be payable by the Company or any Subsidiary to any broker, financial advisor or consultant, finder, placement agent, investment banker, bank or other Person with respect to the transactions contemplated by the Transaction Documents, except as set forth in Disclosure Schedule 3.1(t). The Purchasers shall have no obligation with respect to any fees or with respect to any claims (other than such fees or commissions owed by a Purchaser pursuant to agreements entered into by such Purchaser, which fees or commission shall be the sole responsibility of such Purchaser) made by or on behalf of other Persons for fees of a type contemplated in this Section that may be due in connection with the transactions contemplated by the Transaction Documents due to an arrangement or agreement made by the Company.

(u) Private Placement. Assuming the accuracy of the Purchaser's representations and warranties set forth in Section 3.2, no registration under the Securities Act is required for the offer and sale of the Shares by the Company to the Purchaser as contemplated hereby. The issuance and sale of the Shares hereunder does not contravene the rules and regulations of the Trading Market.

(v) Investment Company. The Company is not, and is not an Affiliate of, and immediately after receipt of payment for the Shares, will not be or be an Affiliate of, an "investment company" within the meaning of the Investment Company Act of 1940, as amended. The Company shall conduct its business in a manner so that it will not become an "investment company" subject to registration under the Investment Company Act of 1940, as amended.

(w) Registration Rights. No Person has any right to cause the Company to effect the registration under the Securities Act of any securities of the Company or any Subsidiary, other than such right pursuant to which a registration statement has been filed by the Company with the Commission.

(x) Listing and Maintenance Requirements. The Common Stock is registered pursuant to Section 12(b) or 12(g) of the Exchange Act, and the Company has taken no action designed to, or which to its knowledge is likely to have the effect of, terminating the registration of the Common Stock under the Exchange Act nor has the Company received any notification that the Commission is contemplating terminating such registration. Except as set forth in the SEC Reports, or as disclosed on Disclosure Schedule 3.1(x), the Company has not, in the 12 months preceding the date hereof, received notice from any Trading Market on which the Common Stock is or has been listed or quoted to the effect that the Company is not in compliance with the listing or maintenance requirements of such Trading Market. Except as otherwise provided on Disclosure Schedule 3.1(x), the Company is, and has no reason to believe that it will not upon issuance of the Shares be, in compliance with all such listing and maintenance requirements. The Common Stock is currently eligible for electronic transfer through the Depository Trust Company or another established clearing corporation and the Company is current in payment of the fees to the Depository Trust Company (or such other established clearing corporation) in connection with such electronic transfer. The issuance of the Shares hereunder does not contravene the rules of the Trading Market.

(y) Application of Takeover Protections. The Company and the Board of Directors have taken all necessary action, if any, in order to render inapplicable any control share acquisition, business combination, poison pill (including any distribution under a rights agreement) or other similar anti-takeover provision under the Company's certificate of incorporation (or similar charter documents) or the laws of its state of incorporation that is or could become applicable to the Purchaser as a result of the Purchaser and the Company fulfilling their obligations or exercising their rights under the Transaction Documents, including without limitation as a result of the Company's issuance of the Shares and the Purchaser's ownership of the Shares.

(z) Disclosure. Except with respect to the material terms and conditions of the transactions contemplated by the Transaction Documents, the Company confirms that neither it nor any other Person acting on its behalf, has provided the Purchaser or its agents or counsel with any information that it believes constitutes or might constitute material, non-public information. The Company understands and confirms that the Purchaser will rely on the foregoing representation in effecting transactions in securities of the Company. Each of the representations and warranties made by the Company herein and all of the disclosure furnished by or on behalf of the Company to the Purchaser regarding the Company and its Subsidiaries, their respective businesses and the transactions contemplated hereby, including the Disclosure Schedules to this Agreement and any other Transaction Document or other instrument or certificate to be furnished to the Purchaser hereunder, is true and correct and does not contain any untrue statement of a material fact or omit to state any material fact necessary in order to make the statements made therein, in light of the circumstances under which they were made, not misleading. The press releases disseminated by the Company during the twelve months preceding the date of this Agreement taken as a whole do not contain any untrue statement of a material fact or omit to state a material fact required to be stated therein or necessary in order to make the statements therein, in light of the circumstances under which they were made and when made, not misleading. The Company acknowledges and agrees that the Purchaser does not make nor has made any representations or warranties with respect to the transactions contemplated hereby other than those specifically set forth in Section 3.2 hereof.

(aa) No Integrated Offering. Assuming the accuracy of the Purchaser's representations and warranties set forth in Section 3.2, neither the Company, nor any of its Affiliates, nor any Person acting on its or their behalf has, directly or indirectly, made any offers or sales of any security or solicited any offers to buy any security, under circumstances that would cause this offering of the Shares to be integrated with prior offerings by the Company for purposes of the Securities Act which would require the registration of any such securities under the Securities Act.

(bb) Solvency. Based on the consolidated financial condition of the Company as of the Closing Date, after giving effect to the receipt by the Company of the proceeds from the sale of the Shares hereunder: (i) the fair saleable value of the Company's assets exceeds the amount that will be required to be paid on or in respect of the Company's existing debts and other liabilities (including known contingent liabilities) as they mature, (ii) the Company's assets do not constitute unreasonably small capital to carry on its business as now conducted and as proposed to be conducted including its capital needs taking into account the particular capital requirements of the business conducted by the Company, consolidated and projected capital requirements and capital availability thereof, and (iii) the current cash flow of the Company, together with the proceeds the Company would receive, were it to liquidate all of its assets, after taking into account all anticipated uses of the cash, would be sufficient to pay all amounts on or in respect of its liabilities when such amounts are required to be paid. The Company does not intend to incur debts beyond its ability to pay such debts as they mature (taking into account the timing and amounts of cash to be payable on or in respect of its debt). The Company has no knowledge of any facts or circumstances which lead it to believe that it will file for reorganization or liquidation under the bankruptcy or reorganization laws of any jurisdiction within one year from the Closing Date. The Company does not have any outstanding secured and unsecured Indebtedness of the Company or any Subsidiary, or for which the Company or any Subsidiary has commitments. For the purposes of this Agreement, "Indebtedness" means (x) any liabilities for borrowed money or amounts owed in excess of \$50,000 (other than trade accounts payable incurred in the ordinary course of business), (y) all guaranties, endorsements and other contingent obligations in respect of indebtedness of others, whether or not the same are or should be reflected in the Company's consolidated balance sheet (or the notes thereto), except guaranties by endorsement of negotiable instruments for deposit or collection or similar transactions in the ordinary course of business; and (z) the present value of any lease payments in excess of \$50,000 due under leases required to be capitalized in accordance with GAAP. Neither the Company nor any Subsidiary is in default with respect to any Indebtedness.

(cc) Tax Status. Except for matters that would not, individually or in the aggregate, have or reasonably be expected to result in a Material Adverse Effect, the Company and its Subsidiaries each (i) has made or filed all United States federal, state and local income and all foreign income and franchise tax returns, reports and declarations required by any jurisdiction to which it is subject, (ii) has paid all taxes and other governmental assessments and charges that are material in amount, shown or determined to be due on such returns, reports and declarations and (iii) has set aside on its books provision reasonably adequate for the payment of all material taxes for periods subsequent to the periods to which such returns, reports or declarations apply. There are no unpaid taxes in any material amount claimed to be due by the taxing authority of any jurisdiction, and the officers of the Company or of any Subsidiary know of no basis for any such claim.

(dd) No General Solicitation. Neither the Company nor any person acting on behalf of the Company has offered or sold any of the Shares by any form of general solicitation or general advertising. The Company has offered the Shares for sale only to the Purchaser and certain other “accredited investors” within the meaning of Rule 501 under the Securities Act.

(ee) Foreign Corrupt Practices. Neither the Company nor any Subsidiary, to the knowledge of the Company or any Subsidiary, any agent or other person acting on behalf of the Company or any Subsidiary, has: (i) directly or indirectly, used any funds for unlawful contributions, gifts, entertainment or other unlawful expenses related to foreign or domestic political activity, (ii) made any unlawful payment to foreign or domestic government officials or employees or to any foreign or domestic political parties or campaigns from corporate funds, (iii) failed to disclose fully any contribution made by the Company or any Subsidiary (or made by any person acting on its behalf of which the Company is aware) which is in violation of law or (iv) violated in any material respect any provision of FCPA.

(ff) Accountants. The Company’s accounting firm is OUM & Co., LLP. To the knowledge and belief of the Company, such accounting firm: (i) is a registered public accounting firm as required by the Exchange Act and (ii) shall express its opinion with respect to the financial statements to be included in the Company’s Annual Report for the fiscal year ending December 31, 2017.

(gg) No Disagreements with Accountants and Lawyers. There are no disagreements of any kind presently existing, or reasonably anticipated by the Company to arise, between the Company and the accountants and lawyers formerly or presently employed by the Company, and the Company is current with respect to any fees owed to its accountants and lawyers which could affect the Company’s ability to perform any of its obligations under any of the Transaction Documents.

(hh) Acknowledgment Regarding Purchaser's Purchase of Shares. The Company acknowledges and agrees that the Purchaser is acting solely in the capacity of an arm's length purchaser with respect to the Transaction Documents and the transactions contemplated thereby. The Company further acknowledges that the Purchaser is not acting as a financial advisor or fiduciary of the Company (or in any similar capacity) with respect to the Transaction Documents and the transactions contemplated thereby and any advice given by the Purchaser or any of their respective representatives or agents in connection with the Transaction Documents and the transactions contemplated thereby is merely incidental to the Purchaser's purchase of the Shares. The Company further represents to the Purchaser that the Company's decision to enter into this Agreement and the other Transaction Documents has been based solely on the independent evaluation of the transactions contemplated hereby by the Company and its representatives.

(ii) Regulation M Compliance. The Company has not, and to its knowledge no one acting on its behalf has, (i) taken, directly or indirectly, any action designed to cause or to result in the stabilization or manipulation of the price of any security of the Company to facilitate the sale or resale of any of the Shares, (ii) sold, bid for, purchased, or paid any compensation for soliciting purchases of, any of the Shares, or (iii) paid or agreed to pay to any Person any compensation for soliciting another to purchase any other securities of the Company, other than, in the case of clauses (ii) and (iii), compensation paid to the Placement Agent in connection with the placement of the Shares issued to the Specified Purchaser.

(ij) FDA. As to each product subject to the jurisdiction of the U.S. Food and Drug Administration ("FDA") under the Federal Food, Drug and Cosmetic Act, as amended, and the regulations thereunder ("FDCA") that is manufactured, packaged, labeled, tested, distributed, sold, and/or marketed by the Company or any of its Subsidiaries (each such product, a "Pharmaceutical Product"), such Pharmaceutical Product is being manufactured, packaged, labeled, tested, distributed, sold and/or marketed by the Company in compliance with all applicable requirements under FDCA and similar laws, rules and regulations relating to registration, investigational use, premarket clearance, licensure, or application approval, good manufacturing practices, good laboratory practices, good clinical practices, product listing, quotas, labeling, advertising, record keeping and filing of reports, except where the failure to be in compliance would not have a Material Adverse Effect. There is no pending, completed or, to the Company's knowledge, threatened, action (including any lawsuit, arbitration, or legal or administrative or regulatory proceeding, charge, complaint, or investigation) against the Company or any of its Subsidiaries, and none of the Company or any of its Subsidiaries has received any notice, warning letter or other communication from the FDA or any other governmental entity including any Form 483 or notice of adverse finding, which (i) contests the premarket clearance, licensure, registration, or approval of, the uses of, the distribution of, the manufacturing or packaging of, the testing of, the sale of, or the labeling and promotion of any Pharmaceutical Product, (ii) withdraws its approval of, requests the recall, suspension, or seizure of, or withdraws or orders the withdrawal of advertising or sales promotional materials relating to, any Pharmaceutical Product, (iii) imposes a clinical hold on any clinical investigation by the Company or any of its Subsidiaries, (iv) enjoins production at any facility of the Company or any of its Subsidiaries, (v) enters or proposes to enter into a consent decree of permanent injunction with the Company or any of its Subsidiaries, or (vi) otherwise alleges any violation of any laws, rules or regulations by the Company or any of its Subsidiaries, and which, either individually or in the aggregate, would have a Material Adverse Effect. The properties, business and operations of the Company have been and are being conducted in all material respects in accordance with all applicable laws, rules and regulations of the FDA. The Company has not been informed by the FDA that the FDA will prohibit the marketing, sale, license or use in the United States of any product proposed to be developed, produced or marketed by the Company nor has the FDA expressed any concern as to approving or clearing for marketing any product being developed or proposed to be developed by the Company. The preclinical tests and clinical trials conducted by the Company, and to the knowledge of the Company the clinical trials conducted by third parties, in each case described in, or the results of which are referred to in, the SEC Filings were and, if still pending, are being conducted in all material respects in accordance with protocols and procedures filed with the appropriate regulatory authorities for each such trial; each description of the results of such preclinical tests and clinical trials contained in the SEC Filings is accurate and complete in all material respects and fairly presents the data derived from such preclinical tests and clinical trials, and the Company has no knowledge of any other studies or tests the results of which are inconsistent with, or otherwise call into question, the results described or referred to in the SEC Filings.

(kk) Stock Option Plans. Each stock option granted by the Company under the Company's stock option plan was granted (i) in accordance with the terms of the Company's stock option plan and (ii) with an exercise price at least equal to the fair market value of the Common Stock on the date such stock option would be considered granted under GAAP and applicable law. No stock option granted under the Company's stock option plan has been backdated. The Company has not knowingly granted, and there is no and has been no Company policy or practice to knowingly grant, stock options prior to, or otherwise knowingly coordinate the grant of stock options with, the release or other public announcement of material information regarding the Company or its Subsidiaries or their financial results or prospects.

(ll) Office of Foreign Assets Control. Neither the Company nor any Subsidiary nor, to the Company's knowledge, any director, officer, agent, employee or affiliate of the Company or any Subsidiary is currently subject to any U.S. sanctions administered by the Office of Foreign Assets Control of the U.S. Treasury Department ("OFAC").

(mm) U.S. Real Property Holding Corporation. The Company is not and has never been a U.S. real property holding corporation within the meaning of Section 897 of the Internal Revenue Code of 1986, as amended, and the Company shall so certify upon Purchaser's request.

(nn) Bank Holding Company Act. Neither the Company nor any of its Subsidiaries or Affiliates is subject to the Bank Holding Company Act of 1956, as amended (the "BHCA") and to regulation by the Board of Governors of the Federal Reserve System (the "Federal Reserve"). Neither the Company nor any of its Subsidiaries or Affiliates owns or controls, directly or indirectly, five percent (5%) or more of the outstanding shares of any class of voting securities or twenty-five percent (25%) or more of the total equity of a bank or any entity that is subject to the BHCA and to regulation by the Federal Reserve. Neither the Company nor any of its Subsidiaries or Affiliates exercises a controlling influence over the management or policies of a bank or any entity that is subject to the BHCA and to regulation by the Federal Reserve.

(oo) Money Laundering. The operations of the Company and its Subsidiaries are and have been conducted at all times in compliance with applicable financial record-keeping and reporting requirements of the Currency and Foreign Transactions Reporting Act of 1970, as amended, applicable money laundering statutes and applicable rules and regulations thereunder (collectively, the "Money Laundering Laws"), and no action, suit or proceeding by or before any court or governmental agency, authority or body or any arbitrator involving the Company or any Subsidiary with respect to the Money Laundering Laws is pending or, to the knowledge of the Company or any Subsidiary, threatened.

(pp) No Disqualification Events. With respect to the Shares to be offered and sold hereunder in reliance on Rule 506 under the Securities Act, none of the Company, any of its predecessors, any affiliated issuer, any director, executive officer, other officer of the Company participating in the offering hereunder, any beneficial owner of twenty percent (20%) or more of the Company's outstanding voting equity securities, calculated on the basis of voting power, nor any promoter (as that term is defined in Rule 405 under the Securities Act) connected with the Company in any capacity at the time of sale (each, an "Issuer Covered Person" and, together, "Issuer Covered Persons") is subject to any of the "Bad Actor" disqualifications described in Rule 506(d)(1)(i) to (viii) under the Securities Act (a "Disqualification Event"), except for a Disqualification Event covered by Rule 506(d)(2) or (d)(3). The Company has exercised reasonable care to determine whether any Issuer Covered Person is subject to a Disqualification Event. The Company has complied, to the extent applicable, with its disclosure obligations under Rule 506(e), and has furnished to the Purchaser a copy of any disclosures provided thereunder.

(qq) Other Covered Persons. Other than the Placement Agent, the Company is not aware of any person (other than any Issuer Covered Person) that has been or will be paid (directly or indirectly) remuneration for solicitation of purchasers in connection with the sale of any Regulation D Shares.

(rr) Notice of Disqualification Events. The Company will notify the Purchaser and the Placement Agent in writing, prior to the Closing Date, if (i) any Disqualification Event relating to any Issuer Covered Person and (ii) any event that would, with the passage of time, become a Disqualification Event relating to any Issuer Covered Person.

3.2 Representations and Warranties of the Purchaser. The Purchaser hereby represents and warrants as of the date hereof and as of the Closing Date, to the Company as follows (unless as of a specific date therein):

(a) Organization; Authority. Such Purchaser is either an individual or an entity duly incorporated or formed, validly existing and in good standing under the laws of the jurisdiction of its incorporation or formation with full right, corporate, partnership, limited liability company or similar power and authority to enter into and to consummate the transactions contemplated by the Transaction Documents and otherwise to carry out its obligations hereunder and thereunder. The execution and delivery of the Transaction Documents and performance by such Purchaser of the transactions contemplated by the Transaction Documents have been duly authorized by all necessary corporate, partnership, limited liability company or similar action, as applicable, on the part of such Purchaser. Each Transaction Document to which it is a party has been duly executed by such Purchaser, and when delivered by such Purchaser in accordance with the terms hereof, will constitute the valid and legally binding obligation of such Purchaser, enforceable against it in accordance with its terms, except: (i) as limited by general equitable principles and applicable bankruptcy, insolvency, reorganization, moratorium and other laws of general application affecting enforcement of creditors' rights generally, (ii) as limited by laws relating to the availability of specific performance, injunctive relief or other equitable remedies and (iii) insofar as indemnification and contribution provisions may be limited by applicable law.

(b) Own Account. Such Purchaser understands that the Shares are “restricted securities” and have not been registered under the Securities Act or any applicable state or foreign securities law and is acquiring the Shares as principal for its own account and not with a view to or for distributing or reselling such Shares or any part thereof in violation of the Securities Act or any applicable state or foreign securities law, has no present intention of distributing any of such Shares in violation of the Securities Act or any applicable state or foreign securities law and has no direct or indirect arrangement or understandings with any other persons to distribute or regarding the distribution of such Shares in violation of the Securities Act or any applicable state or foreign securities law or otherwise in compliance with applicable federal, state and foreign securities laws). Such Purchaser is acquiring the Shares hereunder in the ordinary course of its business.

(c) Purchaser Status. At the time such Purchaser was offered the Shares, it was, and as of the date hereof, it is either: (i) an “accredited investor” as defined in Rule 501(a)(1), (a)(2), (a)(3), (a)(7) or (a)(8) under the Securities Act or (ii) a “qualified institutional buyer” as defined in Rule 144A(a) under the Securities Act.

(d) Experience of Such Purchaser. Such Purchaser, either alone or together with its representatives, has such knowledge, sophistication and experience in business and financial matters so as to be capable of evaluating the merits and risks of the prospective investment in the Shares, and has so evaluated the merits and risks of such investment. Such Purchaser is able to bear the economic risk of an investment in the Shares and, at the present time, is able to afford a complete loss of such investment.

(e) General Solicitation. Such Purchaser is not purchasing the Shares as a result of any advertisement, article, notice or other communication regarding the Shares published in any newspaper, magazine or similar media or broadcast over television or radio or presented at any seminar or any other general solicitation or general advertisement.

(f) Access to Information. Such Purchaser acknowledges that it has had the opportunity to review the Transaction Documents (including all exhibits and schedules thereto) and the SEC Filings and has been afforded (i) the opportunity to ask such questions as it has deemed necessary of, and to receive answers from, representatives of the Company concerning the terms and conditions of the offering of the Shares and the merits and risks of investing in the Shares; (ii) access to information about the Company and its financial condition, results of operations, business, properties, management and prospects sufficient to enable it to evaluate its investment; and (iii) the opportunity to obtain such additional information that the Company possesses or can acquire without unreasonable effort or expense that is necessary to make an informed investment decision with respect to the investment. Such Purchaser acknowledges and agrees that neither the Placement Agent nor any Affiliate of the Placement Agent has provided such Purchaser with any information or advice with respect to the Shares nor is such information or advice necessary or desired. Neither the Placement Agent nor any Affiliate has made or makes any representation as to the Company or the quality of the Shares and the Placement Agent and any Affiliate may have acquired non-public information with respect to the Company which such Purchaser agrees need not be provided to it. In connection with the issuance of the Shares to such Purchaser, neither the Placement Agent nor any of its Affiliates has acted as a financial advisor or fiduciary to such Purchaser.

(g) Certain Transactions and Confidentiality. Other than consummating the transactions contemplated hereunder, such Purchaser has not directly or indirectly, nor has any Person acting on behalf of or pursuant to any understanding with such Purchaser, executed any purchases or sales, including Short Sales, of the securities of the Company during the period commencing as of the time that such Purchaser first received a term sheet or oral description from the Company or any other Person representing the Company setting forth the material terms of the transactions contemplated hereunder and ending immediately prior to the execution hereof. Notwithstanding the foregoing, in the case of a Purchaser that is a multi-managed investment vehicle whereby separate portfolio managers manage separate portions of such Purchaser's assets and the portfolio managers have no direct knowledge of the investment decisions made by the portfolio managers managing other portions of such Purchaser's assets, the representation set forth above shall only apply with respect to the portion of assets managed by the portfolio manager that made the investment decision to purchase the Shares covered by this Agreement. Other than to other Persons party to this Agreement, such Purchaser has maintained the confidentiality of all disclosures made to it in connection with this transaction (including the existence and terms of this transaction). Notwithstanding the foregoing, for avoidance of doubt, nothing contained herein shall constitute a representation or warranty, or preclude any actions, with respect to the identification of the availability of, or securing of, available shares to borrow in order to effect Short Sales or similar transactions in the future.

(h) Filings, Consents and Approvals. The Purchaser is not required to obtain any consent, waiver, authorization or order of, give any notice to, or make any filing or registration with, any court or other federal, state, local or other governmental authority or other Person in connection with the execution, delivery and performance by the Company of the Transaction Documents, other than the approvals by the applicable regulatory authorities in China of the Purchaser's funds transfer out of China for purpose of paying the Subscription Amount at the Closing (the "Funds Transfer Approvals").

The Company acknowledges and agrees that the representations contained in Section 3.2 shall not modify, amend or affect such Purchaser's right to rely on the Company's representations and warranties contained in this Agreement or any representations and warranties contained in any other Transaction Document or any other document or instrument executed and/or delivered in connection with this Agreement or the consummation of the transaction contemplated hereby.

ARTICLE IV. OTHER AGREEMENTS OF THE PARTIES

4.1 Transfer Restrictions.

(a) The Shares may only be disposed of in compliance with state and federal securities laws. In connection with any transfer of Shares other than pursuant to an effective registration statement or Rule 144, to the Company or to an Affiliate of a Purchaser or in connection with a pledge to an accredited investor as contemplated in Section 4.1(b), the Company may require the transferor thereof to provide to the Company an opinion of counsel selected by the transferor and reasonably acceptable to the Company, the form and substance of which opinion shall be reasonably satisfactory to the Company, to the effect that such transfer does not require registration of such transferred Shares under the Securities Act. In connection with any transfer of Shares pursuant to Rule 144 or other applicable exemption, the Company may require the transferor thereof to provide the Company with written representations providing reasonable assurance that the proposed transfer complies with the requirements of Rule 144 or other applicable exemption. As a condition of transfer, any such transferee shall (i) agree in writing to be bound by the terms of this Agreement, and (ii) if the transfer is not made (A) in accordance with Rule 144, (B) pursuant to an effective registration statement or (C) in a transfer not involving a change in beneficial ownership, make the representations set forth in Sections 3.2(b) and (c). If such conditions are satisfied, such transferee shall have the rights and obligations of a Purchaser under this Agreement.

(b) The Purchaser agrees to the imprinting or making, so long as is required by this Section 4.1, of a legend or electronic notation on any of the Shares in the following form:

THIS SECURITY HAS NOT BEEN REGISTERED WITH THE SECURITIES AND EXCHANGE COMMISSION OR THE SECURITIES COMMISSION OF ANY STATE IN RELIANCE UPON AN EXEMPTION FROM REGISTRATION UNDER THE SECURITIES ACT OF 1933, AS AMENDED (THE "SECURITIES ACT"), AND, ACCORDINGLY, MAY NOT BE OFFERED OR SOLD EXCEPT PURSUANT TO AN EFFECTIVE REGISTRATION STATEMENT UNDER THE SECURITIES ACT OR PURSUANT TO AN AVAILABLE EXEMPTION FROM, OR IN A TRANSACTION NOT SUBJECT TO, THE REGISTRATION REQUIREMENTS OF THE SECURITIES ACT AND IN ACCORDANCE WITH APPLICABLE STATE SECURITIES LAWS AS EVIDENCED BY A LEGAL OPINION OF COUNSEL TO THE TRANSFEROR TO SUCH EFFECT, THE SUBSTANCE OF WHICH SHALL BE REASONABLY ACCEPTABLE TO THE COMPANY, OR, IN THE CASE OF AN OFFER OR SALE PURSUANT TO RULE 144 UNDER THE SECURITIES ACT, AS EVIDENCED BY WRITTEN REPRESENTATIONS PROVIDED BY THE TRANSFEROR, THE SUBSTANCE OF WHICH SHALL BE REASONABLY ACCEPTABLE TO THE COMPANY, OF COMPLIANCE WITH SUCH RULE. THIS SECURITY MAY BE PLEDGED IN CONNECTION WITH A BONA FIDE MARGIN ACCOUNT WITH A REGISTERED BROKER-DEALER OR OTHER LOAN WITH A FINANCIAL INSTITUTION THAT IS AN "ACCREDITED INVESTOR" AS DEFINED IN RULE 501(a) UNDER THE SECURITIES ACT OR OTHER LOAN SECURED BY SUCH SECURITIES.

The Company acknowledges and agrees that a Purchaser may from time to time pledge pursuant to a bona fide margin agreement with a registered broker-dealer or grant a security interest in some or all of the Shares to a financial institution that is an "accredited investor" as defined in Rule 501(a) under the Securities Act and who agrees to be bound by the provisions of this Agreement and, if required under the terms of such arrangement, such Purchaser may transfer pledged or secured Shares to the pledgees or secured parties. Such a pledge or transfer would not be subject to approval of the Company and no legal opinion of legal counsel of the pledgee, secured party or pledgor shall be required in connection therewith. Further, no notice shall be required of such pledge. At the Purchaser's expense, the Company will execute and deliver such reasonable documentation as a pledgee or secured party of Shares may reasonably request in connection with a pledge or transfer of the Shares.

(c) The Shares shall not contain any legend or electronic notation (including the legend or electronic notation set forth in Section 4.1(b) hereof), (i) following any sale of such Shares pursuant to Rule 144, (ii) if such Shares are eligible for sale under Rule 144, without the requirement for the Company to be in compliance with the current public information required under Rule 144 as to such Shares and without volume or manner-of-sale restrictions, or (iii) if such legend or electronic notation is not otherwise required under applicable requirements of the Securities Act (including judicial interpretations and pronouncements issued by the staff of the Commission). Upon request by the Purchaser, following such time as a legend or electronic notation is no longer required under this Section 4.1(c), the Company shall cause its counsel to issue an instruction letter to the Transfer Agent promptly after the Effective Date if required by the Transfer Agent to effect the removal of the legend or electronic notation hereunder. The Company agrees that at such time as such legend or electronic notation is no longer required under this Section 4.1(c), it will, no later than three Trading Days following the written request by a Purchaser to the Company to remove such restrictive legend or electronic notation from such Shares (which may be held in book-entry form only and not represented by a certificate at the time of such request) (such third Trading Day, the “Legend Removal Date”), deliver or cause to be delivered to such Purchaser Shares that are free from all restrictive and other legends or electronic notations by causing the Transfer Agent to credit the account of the Purchaser’s prime broker with the Depository Trust Company System as directed by such Purchaser. The Company may not make any notation on its records or give instructions to the Transfer Agent that enlarge the restrictions on transfer set forth in this Section 4.

(d) The Purchaser agrees with the Company that such Purchaser will sell any Shares pursuant to an exemption from the registration requirements of the Securities Act.

4.2 Funds Transfer Approvals. To the extent required by the applicable regulatory authorities in China, the Purchaser hereby agrees to use best efforts to obtain the Funds Transfer Approvals.

4.3 Integration. The Company shall not sell, offer for sale or solicit offers to buy or otherwise negotiate in respect of any security (as defined in Section 2 of the Securities Act) that would be integrated with the offer or sale of the Shares in a manner that would require the registration under the Securities Act of the sale of the Shares or that would be integrated with the offer or sale of the Shares for purposes of the rules and regulations of any Trading Market such that it would require stockholder approval prior to the closing of such other transaction unless stockholder approval is obtained before the closing of such subsequent transaction.

4.4 Securities Laws Disclosure: Publicity. The Company shall file a Current Report on Form 8-K or Quarterly Report on Form 10-Q, including the Transaction Documents as exhibits thereto, with the Commission within the time required by the Exchange Act. From and after the filing of such Current Report on Form 8-K or Quarterly Report on Form 10-Q, the Company represents to the Purchaser that it shall have publicly disclosed all material, non-public information delivered to the Purchaser by the Company, or any of its respective officers, directors, employees or agents in connection with the transactions contemplated by the Transaction Documents.

4.5 [Reserved]

4.6 Non-Public Information. Except with respect to the material terms and conditions of the transactions contemplated by the Transaction Documents, the Company covenants and agrees that neither it, nor any other Person acting on its behalf, will provide the Purchaser or its agents or counsel with any information that the Company believes constitutes material non-public information, unless prior thereto such Purchaser shall have entered into a written agreement with the Company regarding the confidentiality and use of such information. The Company understands and confirms that the Purchaser shall be relying on the foregoing covenant in effecting transactions in securities of the Company.

4.7 Use of Proceeds. The Company shall use the net proceeds from the sale of the Shares hereunder for working capital purposes and shall not use such proceeds: (a) for the satisfaction of any portion of the Company's debt (other than payment of trade payables in the ordinary course of the Company's business and prior practices), (b) for the redemption of any Common Stock or Common Stock Equivalents, (c) for the settlement of any outstanding litigation or (d) in violation of FCPA or OFAC regulations.

4.8 Indemnification of the Purchaser. Subject to the provisions of this Section 4.8, the Company will indemnify and hold the Purchaser and its directors, officers, stockholders, members, partners, employees and agents (and any other Persons with a functionally equivalent role of a Person holding such titles notwithstanding a lack of such title or any other title), each Person who controls such Purchaser (within the meaning of Section 15 of the Securities Act and Section 20 of the Exchange Act), and the directors, officers, stockholders, agents, members, partners or employees (and any other Persons with a functionally equivalent role of a Person holding such titles notwithstanding a lack of such title or any other title) of such controlling persons (each, a "Purchaser Party") harmless from any and all losses, liabilities, obligations, claims, contingencies, damages, costs and expenses, including all judgments, amounts paid in settlements, court costs and reasonable attorneys' fees and costs of investigation that any such Purchaser Party may suffer or incur as a result of or relating to (a) any breach of any of the representations, warranties, covenants or agreements made by the Company in this Agreement or in the other Transaction Documents or (b) any action instituted against the Purchaser Parties in any capacity, or any of them or their respective Affiliates, by any stockholder of the Company who is not an Affiliate of such Purchaser Parties, with respect to any of the transactions contemplated by the Transaction Documents (unless such action is based upon a breach of such Purchaser Party's representations, warranties or covenants under the Transaction Documents or any agreements or understandings such Purchaser Parties may have with any such stockholder or any violations by such Purchaser Parties of state or federal securities laws or any conduct by such Purchaser Parties which constitutes fraud, gross negligence, willful misconduct or malfeasance). If any action shall be brought against any Purchaser Party in respect of which indemnity may be sought pursuant to this Agreement, such Purchaser Party shall promptly notify the Company in writing, and the Company shall have the right to assume the defense thereof with counsel of its own choosing reasonably acceptable to the Purchaser Party. Any Purchaser Party shall have the right to employ separate counsel in any such action and participate in the defense thereof, but the fees and expenses of such counsel shall be at the expense of such Purchaser Party except to the extent that (i) the employment thereof has been specifically authorized by the Company in writing, (ii) the Company has failed after a reasonable period of time to assume such defense and to employ counsel or (iii) in such action there is, in the reasonable opinion of counsel, a material conflict on any material issue between the position of the Company and the position of such Purchaser Party, in which case the Company shall be responsible for the reasonable fees and expenses of no more than one such separate counsel. The Company will not be liable to any Purchaser Party under this Agreement (y) for any settlement by a Purchaser Party effected without the Company's prior written consent, which shall not be unreasonably withheld or delayed; or (z) to the extent, but only to the extent that a loss, claim, damage or liability is attributable to any Purchaser Party's breach of any of the representations, warranties, covenants or agreements made by such Purchaser Party in this Agreement or in the other Transaction Documents. The indemnification required by this Section 4.8 shall be made by periodic payments of the amount thereof during the course of the investigation or defense, as and when bills are received or are incurred. The indemnity agreements contained herein shall be in addition to any cause of action or similar right of any Purchaser Party against the Company or others and any liabilities the Company may be subject to pursuant to law.

4.9 Reservation of Common Stock. As of the date hereof, the Company has reserved and the Company shall continue to reserve and keep available at all times, free of preemptive rights, a sufficient number of shares of Common Stock for the purpose of enabling the Company to issue Shares pursuant to this Agreement.

4.10 Listing of Common Stock. To the extent required by the Trading Market and subject to the parameters of the Company's compliance plan with the NYSE American, the Company hereby agrees (i) to use best efforts to maintain the listing or quotation of the Common Stock on the Trading Market on which it is currently listed, and (ii) apply to list or quote all of the Shares on such Trading Market and promptly secure the listing of all of the Shares on such Trading Market. The Company further agrees, if the Company applies to have the Common Stock traded on any other Trading Market, it will then, to the extent required by the Trading Market, include in such application all of the Shares, and will take such other action as is necessary to cause all of the Shares to be listed or quoted on such other Trading Market as promptly as possible. To the extent applicable, the Company will then take all action reasonably necessary to continue the listing or quotation and trading of its Common Stock on a Trading Market and will comply in all respects with the Company's reporting, filing and other obligations under the bylaws or rules of the Trading Market. The Company agrees to maintain the eligibility of the Common Stock for electronic transfer through the Depository Trust Company or another established clearing corporation, including, without limitation, by timely payment of fees to the Depository Trust Company or such other established clearing corporation in connection with such electronic transfer.

4.11 [Reserved]

4.12 Certain Transactions and Confidentiality. The Purchaser covenants that neither it, nor any Affiliate acting on its behalf or pursuant to any understanding with it will execute any purchases or sales, including Short Sales, of any of the Company's securities during the period commencing with the execution of this Agreement and ending at such time that the transactions contemplated by this Agreement are first publicly announced pursuant to the filing of the Form 8-K as described in Section 4.4. The Purchaser covenants that until such time as the transactions contemplated by this Agreement are publicly disclosed by the Company as described in Section 4.4, such Purchaser will maintain the confidentiality of the existence and terms of this transaction and the information included in the Transaction Documents and the Disclosure Schedules. Notwithstanding the foregoing, and notwithstanding anything contained in this Agreement to the contrary, the Company expressly acknowledges and agrees that the Purchaser shall not have any duty of confidentiality to the Company or its Subsidiaries after the time that the transactions contemplated by this Agreement are first publicly announced as described in Section 4.4. Notwithstanding the foregoing, in the case of a Purchaser that is a multi-managed investment vehicle whereby separate portfolio managers manage separate portions of such Purchaser's assets and the portfolio managers have no direct knowledge of the investment decisions made by the portfolio managers managing other portions of such Purchaser's assets, the covenant set forth above shall only apply with respect to the portion of assets managed by the portfolio manager that made the investment decision to purchase the Shares covered by this Agreement.

4.13 Form D: Blue Sky Filings. The Company agrees to timely file a Form D with respect to the Shares as required under Regulation D and to provide a copy thereof, promptly upon request of the Purchaser. To the extent applicable, the Company shall take such action as the Company shall reasonably determine is necessary in order to obtain an exemption for, or to qualify the Shares for, sale to the Purchaser at the Closing, under applicable securities or “Blue Sky” laws of the states of the United States, and shall provide evidence of such actions promptly upon request of the Purchaser.

4.14 Acknowledgment of Dilution. The Company acknowledges that the issuance of the Shares may result in dilution of the outstanding shares of Common Stock, which dilution may be substantial under certain market conditions. The Company further acknowledges that its obligations under the Transaction Documents, including, without limitation, its obligation to issue the Shares pursuant to the Transaction Documents, are unconditional and absolute and not subject to any right of set off, counterclaim, delay or reduction, regardless of the effect of any such dilution or any claim the Company may have against the Purchaser and regardless of the dilutive effect that such issuance may have on the ownership of the other stockholders of the Company.

4.15 Limitation on Beneficial Ownership. Without the prior written consent of the Company, the Purchaser shall not be entitled to purchase a number of shares of Common Stock that would cause the Purchaser to become, directly or indirectly, a “beneficial owner” (within the meaning of Section 13(d) of the Exchange Act) of a number of shares of Common Stock which exceeds 45% of the shares of Common Stock that are outstanding at such time.

**ARTICLE V.
MISCELLANEOUS**

5.1 Termination. This Agreement may be terminated before the Closing by the Purchaser, by written notice to the Company, if the Closing has not been consummated on or before January 30, 2018; provided, however, that such termination will not affect the right of any party to sue for any breach by any other party (or parties).

5.2 Fees and Expenses. Except as expressly set forth in the Transaction Documents to the contrary, each party shall pay the fees and expenses of its advisers, counsel, accountants and other experts, if any, and all other expenses incurred by such party incident to the negotiation, preparation, execution, delivery and performance of this Agreement. The Company shall pay all Transfer Agent fees (including, without limitation, any fees required for same-day processing of any instruction letter delivered by the Company and any exercise notice delivered by a Purchaser), stamp taxes and other taxes and duties levied in connection with the delivery of any Shares to the Purchaser (other than income and capital gains taxes of the Purchaser that may be incurred in connection with the transactions contemplated hereby) and any fees due to the Placement Agent and any other Person to whom any brokerage, commission, placement agent or other similar fees are owed in connection with the sale of the Shares.

5.3 Entire Agreement. The Transaction Documents, together with the exhibits and schedules thereto, contain the entire understanding of the parties with respect to the subject matter hereof and thereof and supersede all prior agreements and understandings, oral or written, with respect to such matters, which the parties acknowledge have been merged into such documents, exhibits and schedules.

5.4 Notices. Any and all notices or other communications or deliveries required or permitted to be provided hereunder shall be in writing and shall be deemed given and effective on the earliest of: (a) the date of transmission, if such notice or communication is delivered via facsimile or e-mail at the facsimile number or e-mail address set forth on the signature pages attached hereto at or prior to 5:30 p.m. (New York City time) on a Trading Day, (b) the next Trading Day after the date of transmission, if such notice or communication is delivered via facsimile or e-mail at the facsimile number or e-mail address set forth on the signature pages attached hereto on a day that is not a Trading Day or later than 5:30 p.m. (New York City time) on any Trading Day, (c) the second (2nd) Trading Day following the date of mailing, if sent by U.S. nationally recognized overnight courier service or (d) upon actual receipt by the party to whom such notice is required to be given. The address for such notices and communications shall be as set forth on the signature pages attached hereto.

5.5 Amendments; Waivers. No provision of this Agreement may be waived, modified, supplemented or amended except in a written instrument signed, in the case of an amendment, by the Company and the Purchaser or, in the case of a waiver, by the party against whom enforcement of any such waived provision is sought. No waiver of any default with respect to any provision, condition or requirement of this Agreement shall be deemed to be a continuing waiver in the future or a waiver of any subsequent default or a waiver of any other provision, condition or requirement hereof, nor shall any delay or omission of any party to exercise any right hereunder in any manner impair the exercise of any such right.

5.6 Headings. The headings herein are for convenience only, do not constitute a part of this Agreement and shall not be deemed to limit or affect any of the provisions hereof.

5.7 Successors and Assigns. This Agreement shall be binding upon and inure to the benefit of the parties and their successors and permitted assigns. The Company may not assign this Agreement or any rights or obligations hereunder without the prior written consent of the Purchaser (other than by merger). The Purchaser may assign any or all of its rights under this Agreement to any Person to whom such Purchaser assigns or transfers any Shares, provided that such transferee agrees in writing to be bound, with respect to the transferred Shares, by the provisions of the applicable Transaction Documents that apply to the "Purchaser."

5.8 No Third-Party Beneficiaries. The Placement Agent shall be a third party beneficiary with respect to the representations and warranties of the Specified Purchaser. This Agreement is intended for the benefit of the parties hereto and their respective successors and permitted assigns and is not for the benefit of, nor may any provision hereof be enforced by, any other Person, except as otherwise set forth in Section 4.8 and this Section 5.8.

5.9 Governing Law; Jurisdiction. All questions concerning the construction, validity, enforcement and interpretation of the Transaction Documents shall be governed by and construed and enforced in accordance with the internal laws of the State of New York, without regard to the principles of conflicts of law thereof. Each party agrees that all legal proceedings concerning the interpretations, enforcement and defense of the transactions contemplated by this Agreement and any other Transaction Documents (whether brought against a party hereto or its respective affiliates, directors, officers, stockholders, partners, members, employees or agents) shall be commenced exclusively in the state and federal courts sitting in the City of New York. Each party hereby irrevocably submits to the exclusive jurisdiction of the state and federal courts sitting in the City of New York, Borough of Manhattan for the adjudication of any dispute hereunder or in connection herewith or with any transaction contemplated hereby or discussed herein (including with respect to the enforcement of any of the Transaction Documents), and hereby irrevocably waives, and agrees not to assert in any suit, action or proceeding, any claim that it is not personally subject to the jurisdiction of any such court, that such suit, action or proceeding is improper or is an inconvenient venue for such proceeding. Each party hereby irrevocably waives personal service of process and consents to process being served in any such suit, action or proceeding by mailing a copy thereof via registered or certified mail or overnight delivery (with evidence of delivery) to such party at the address in effect for notices to it under this Agreement and agrees that such service shall constitute good and sufficient service of process and notice thereof. Nothing contained herein shall be deemed to limit in any way any right to serve process in any other manner permitted by law. If either party shall commence an action or proceeding to enforce any provisions of the Transaction Documents, then in addition to the obligations of the Company under Section 4.8, the prevailing party in such action, suit or proceeding shall be reimbursed by the other party for its reasonable attorneys' fees and other costs and expenses incurred with the investigation, preparation and prosecution of such action or proceeding.

5.10 Survival. The representations and warranties contained herein shall survive the delivery of the Shares in relation to the Closing.

5.11 Execution. This Agreement may be executed in two or more counterparts, all of which when taken together shall be considered one and the same agreement and shall become effective when counterparts have been signed by each party and delivered to each other party, it being understood that the parties need not sign the same counterpart. In the event that any signature is delivered by facsimile transmission or by e-mail delivery of a ".pdf" format data file, such signature shall create a valid and binding obligation of the party executing (or on whose behalf such signature is executed) with the same force and effect as if such facsimile or ".pdf" signature page were an original thereof.

5.12 Severability. If any term, provision, covenant or restriction of this Agreement is held by a court of competent jurisdiction to be invalid, illegal, void or unenforceable, the remainder of the terms, provisions, covenants and restrictions set forth herein shall remain in full force and effect and shall in no way be affected, impaired or invalidated, and the parties hereto shall use their commercially reasonable efforts to find and employ an alternative means to achieve the same or substantially the same result as that contemplated by such term, provision, covenant or restriction. It is hereby stipulated and declared to be the intention of the parties that they would have executed the remaining terms, provisions, covenants and restrictions without including any of such that may be hereafter declared invalid, illegal, void or unenforceable.

5.13 Replacement of Shares. If any certificate or instrument evidencing any Shares is mutilated, lost, stolen or destroyed, the Company shall issue or cause to be issued in exchange and substitution for and upon cancellation thereof (in the case of mutilation), or in lieu of and substitution therefor, a new certificate or instrument, but only upon receipt of evidence reasonably satisfactory to the Company of such loss, theft or destruction. The applicant for a new certificate or instrument under such circumstances shall also pay any reasonable third-party costs (including customary indemnity) associated with the issuance of such replacement Shares.

5.14 Remedies. In addition to being entitled to exercise all rights provided herein or granted by law, including recovery of damages, the Purchaser and the Company may be entitled to specific performance under the Transaction Documents. The parties agree that monetary damages may not be adequate compensation for any loss incurred by reason of any breach of obligations contained in the Transaction Documents and hereby agree to waive and not to assert in any action for specific performance of any such obligation the defense that a remedy at law would be adequate.

5.15 Payment Set Aside. To the extent that the Company makes a payment or payments to the Purchaser pursuant to any Transaction Document or a Purchaser enforces or exercises its rights thereunder, and such payment or payments or the proceeds of such enforcement or exercise or any part thereof are subsequently invalidated, declared to be fraudulent or preferential, set aside, recovered from, disgorged by or are required to be refunded, repaid or otherwise restored to the Company, a trustee, receiver or any other Person under any law (including, without limitation, any bankruptcy law, state or federal law, common law or equitable cause of action), then to the extent of any such restoration the obligation or part thereof originally intended to be satisfied shall be revived and continued in full force and effect as if such payment had not been made or such enforcement or setoff had not occurred.

5.16 [Reserved]

5.17 Liquidated Damages. The Company's obligations to pay any partial liquidated damages or other amounts owing under the Transaction Documents is a continuing obligation of the Company and shall not terminate until all unpaid partial liquidated damages and other amounts have been paid notwithstanding the fact that the instrument or security pursuant to which such partial liquidated damages or other amounts are due and payable shall have been canceled.

5.18 Saturdays, Sundays, Holidays, etc. If the last or appointed day for the taking of any action or the expiration of any right required or granted herein shall not be a Business Day, then such action may be taken or such right may be exercised on the next succeeding Business Day.

5.19 Construction. The parties agree that each of them and/or their respective counsel have reviewed and had an opportunity to revise the Transaction Documents and, therefore, the normal rule of construction to the effect that any ambiguities are to be resolved against the drafting party shall not be employed in the interpretation of the Transaction Documents or any amendments thereto. In addition, each and every reference to share prices and shares of Common Stock in any Transaction Document shall be subject to adjustment for reverse and forward stock splits, stock dividends, stock combinations and other similar transactions of the Common Stock that occur after the date of this Agreement.

5.20 WAIVER OF JURY TRIAL. IN ANY ACTION, SUIT, OR PROCEEDING IN ANY JURISDICTION BROUGHT BY ANY PARTY AGAINST ANY OTHER PARTY, THE PARTIES EACH KNOWINGLY AND INTENTIONALLY, TO THE GREATEST EXTENT PERMITTED BY APPLICABLE LAW, HEREBY ABSOLUTELY, UNCONDITIONALLY, IRREVOCABLY AND EXPRESSLY WAIVES FOREVER TRIAL BY JURY.

5.21 OFFERING IN THE PEOPLE'S REPUBLIC OF CHINA. EACH PARTY TO THIS AGREEMENT HEREBY AGREES AND ACKNOWLEDGES THAT THE SECURITIES HAVE NOT BEEN, AND WILL NOT BE, MARKETED, OFFERED OR SOLD DIRECTLY OR INDIRECTLY TO THE PUBLIC IN PEOPLE'S REPUBLIC OF CHINA ("CHINA," AND WHICH FOR SUCH PURPOSES SHALL EXCLUDE THE HONG KONG AND MACAU SPECIAL ADMINISTRATIVE REGIONS AND TAIWAN), AND NEITHER THIS AGREEMENT, WHICH HAS NOT BEEN, AND WILL NOT BE, SUBMITTED TO, OR REGISTERED WITH, THE CHINA SECURITIES AND REGULATORY COMMISSION EXCEPT AS REQUIRED BY CHINESE SECURITIES LAWS AND REGULATIONS TO BE SUBMITTED OR DISCLOSED, NOR ANY OFFERING MATERIAL OR INFORMATION RELATING TO THE SECURITIES, HAS BEEN, OR WILL BE, SUPPLIED TO THE PUBLIC IN CHINA OR USED IN CONNECTION WITH ANY OFFER FOR THE SUBSCRIPTION OR SALE OF THE SECURITIES TO THE PUBLIC IN CHINA. EACH PURCHASER WHO IS A CHINESE INVESTOR HEREBY REPRESENTS, WARRANTS AND COVENANTS THAT (I) IT IS A CHINESE INSTITUTION WHICH IS AUTHORIZED TO ENGAGE IN FOREIGN EXCHANGE BUSINESS AND OFFSHORE INVESTMENT FROM OUTSIDE CHINA, AND THAT (II) IT HAS BEEN, AND WILL BE, IN COMPLIANCE WITH THE FOREIGN EXCHANGE CONTROL APPROVAL AND FILING REQUIREMENTS UNDER THE RELEVANT CHINESE FOREIGN EXCHANGE REGULATIONS, AS WELL AS APPLICABLE OFFSHORE INVESTMENT APPROVAL REQUIREMENTS.

[Signature Page Follows]

PURCHASER SIGNATURE PAGE TO NOVABAY PHARMACEUTICALS, INC. SHARE PURCHASE AGREEMENT

IN WITNESS WHEREOF, the undersigned have caused this Share Purchase Agreement to be duly executed by their respective authorized signatories as of the date first indicated above.

Name of Purchaser: Ch-gemstone Capital (Beijing) Co., Ltd.

Signature of Authorized Signatory of Purchaser: /s/ Yu Bo

Name of Authorized Signatory: Yu Bo

Title of Authorized Signatory: Chairman and President

Email Address of Authorized Signatory: [Redacted]

Address for Notice to Purchaser: [Redacted]

E-mail for notice: [Redacted]

Address for Delivery of Shares to Purchaser (if not same as address for notice):

Subscription Amount: \$10,320,000 USD

Shares: 2,400,000

SCHEDULE I

Purchasers Name and Address	Shares of Common Stock	Subscription Amount
Ch-gemstone Capital (Beijing) Co., Ltd.	2,400,000	\$10,320,000
Total	2,400,000	\$10,320,000

DISCLOSURE SCHEDULE 3.1(i)

From time to time, the Company may be involved in various legal proceedings arising in the ordinary course of business. On December 19, 2016, Liam Kozma, claiming to be a stockholder of the Company, filed a putative derivative action against the Company and the Board of Directors (the "Board") in the United States District Court for the District of Delaware (the "Court") alleging that the Board breached its fiduciary duty and made materially false and misleading statements in the Company's proxy statement filed with the SEC on April 18, 2016, as supplemented on May 17, 2016, related to the Company's amendment of the 2007 Omnibus Incentive Plan. The parties have agreed to settle the litigation conditioned upon approval by the Court. The Court preliminarily approved the settlement by order dated September 26, 2017, and the Court has set a final settlement hearing for December 15, 2017. The Company has accrued an amount up to its insurance deductible and does not believe this or any other matters will have a material adverse effect on our financial position.

DISCLOSURE SCHEDULE 3.1(f)

The Placement Agent will be entitled to a commission as agreed with the Company on the total purchase price of the Shares sold to the Specified Purchasers pursuant to this Agreement.

DISCLOSURE SCHEDULE 3.1(x)

On May 16, 2017, the Company was notified by the NYSE American LLC (the “Exchange”) that it was not in compliance with the minimum stockholders’ equity requirement of Section 1003(a)(iii) of the NYSE American Company Guide requiring stockholders’ equity of \$6.0 million or more if the Company has reported losses from continuing operations and/or net losses in its five most recent fiscal years.

On September 14, 2017, the Company was notified by the Exchange that the Company is not in compliance with the minimum stockholders’ equity requirement of Section 1003(a)(ii) of the NYSE American Company Guide requiring stockholders’ equity of \$4.0 million or more if the Company has reported losses from continuing operations and/or net losses in three of the four most recent fiscal years.

**CERTIFICATION OF THE PRINCIPAL EXECUTIVE OFFICER
PURSUANT TO RULE 13a-14(a) AND 15d-14(a)**

I, Mark M. Sieczkarek, certify that:

1. I have reviewed this Form 10-Q of NovaBay Pharmaceuticals, Inc.;
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 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;
 - (c) Evaluated the effectiveness of the 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 fiscal 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 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
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: November 14, 2017

/s/ Mark M. Sieczkarek

Mark M. Sieczkarek
Chairman and Chief Executive Officer
(*principal executive officer*)

**CERTIFICATION OF THE PRINCIPAL FINANCIAL OFFICER
PURSUANT TO RULE 13a-14(a) AND 15d-14(a)**

I, John J. McGovern, certify that:

1. I have reviewed this Form 10-Q of NovaBay Pharmaceuticals, Inc.;

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 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;

(c) Evaluated the effectiveness of the 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 fiscal 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 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

(b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: November 14, 2017

/s/ John J. McGovern

John J. McGovern
Chief Financial Officer
(principal financial officer)

**CERTIFICATION OF PRINCIPAL EXECUTIVE OFFICER PURSUANT TO
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002 (18 U.S.C. §1350)**

In connection with the Quarterly Report of NovaBay Pharmaceuticals, Inc. (the "Company") on Form 10-Q for the quarter ended September 30, 2017, as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Mark M. Sieczkarek, Chairman and Chief Executive Officer of the Company, certify, pursuant to 18 U.S.C. §1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that, to the best of my knowledge:

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

Date: November 14, 2017

/s/ Mark M. Sieczkarek
Mark M. Sieczkarek
Chairman and Chief
Executive Officer
(principal executive officer)

**CERTIFICATION OF PRINCIPAL FINANCIAL OFFICER PURSUANT TO
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002 (18 U.S.C. §1350)**

In connection with the Quarterly Report of NovaBay Pharmaceuticals, Inc. (the "Company") on Form 10-Q for the quarter ended September 30, 2017, as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, John J. McGovern, Chief Financial Officer of the Company, certify, pursuant to 18 U.S.C. §1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that, to the best of my knowledge:

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

Date: November 14, 2017

/s/ John J. McGovern
John J. McGovern
Chief Financial Officer
(principal financial officer)