

RespireRx Pharmaceuticals Inc.
Form 10-Q
May 13, 2016

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 10-Q

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

For the quarterly period ended March 31, 2016

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

Commission file number: 1-16467

RESPIRERX PHARMACEUTICALS INC.

(Exact name of registrant as specified in its charter)

Delaware **33-0303583**
(State or other jurisdiction of (I.R.S. Employer
incorporation or organization) Identification Number)

126 Valley Road, Suite C

Glen Rock, New Jersey 07452

(Address of principal executive offices)

(201) 444-4947

(Registrant's telephone number, including area code)

Not applicable

(Former name, former address and former fiscal year, if changed since last report)

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, or a non-accelerated filer (as defined in Rule 12b-2 of the Exchange Act).

Large accelerated filer Accelerated filer
Non-accelerated filer Smaller reporting company

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 May 9, 2016, the Company had 640,958,608 shares of common stock, \$0.001 par value, issued and outstanding.

**RESPIRERX PHARMACEUTICALS INC.
AND SUBSIDIARY**

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Cautionary Note Regarding Forward-Looking Statements

This Quarterly Report on Form 10-Q of RespireRx Pharmaceuticals Inc. (the “Company”) contains certain forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934 and we intend that such forward-looking statements be subject to the safe harbor created thereby. These might include statements regarding the Company’s financial position, business strategy and other plans and objectives for future operations, and assumptions and predictions about future product demand, supply, manufacturing, costs, marketing and pricing factors are all forward-looking statements.

In some cases, forward-looking statements may be identified by words including “anticipates,” “believes,” “intends,” “estimates,” “expects,” “plans,” and similar expressions include, but are not limited to, statements regarding (i) future research plans, expenditures and results, (ii) potential collaborative arrangements, (iii) the potential utility of our proposed products, and (iv) the need for, and availability of, additional financing.

The forward-looking statements included herein are based on current expectations that involve a number of risks and uncertainties. These forward-looking statements are based on assumptions regarding our business and technology, which involve judgments with respect to, among other things, future scientific, economic and competitive conditions, and future business decisions, all of which are difficult or impossible to predict accurately and many of which are beyond our control. Although we believe that the assumptions underlying the forward-looking statements are reasonable, actual results may differ materially from those set forth in the forward-looking statements. In light of the significant uncertainties inherent in the forward-looking information included herein, the inclusion of such information should not be regarded as a representation by us or any other person that our objectives or plans will be achieved.

Factors that could cause or contribute to such differences include, but are not limited to, regulatory policies or changes thereto, available cash, research and development results, competition from other similar businesses, and market and general economic factors. This discussion should be read in conjunction with the condensed consolidated financial statements (unaudited) and notes thereto included in Item 1 of this Quarterly Report on Form 10-Q and the Company’s Annual Report on Form 10-K for the fiscal year ended December 31, 2015, including the section entitled “Item 1A. Risk Factors.” The Company does not intend to update or revise any forward-looking statements to reflect new information, future events or otherwise.

PART I - FINANCIAL INFORMATION**ITEM 1. CONDENSED CONSOLIDATED FINANCIAL STATEMENTS****RESPIRERX PHARMACEUTICALS INC.****AND SUBSIDIARY****CONDENSED CONSOLIDATED BALANCE SHEETS**

	March 31, 2016 (Unaudited)	December 31, 2015
ASSETS		
Current assets:		
Cash and cash equivalents	\$6,053	\$53,199
Deferred financing costs	-	3,429
Prepaid expenses, including current portion of long-term prepaid insurance of \$14,945 at March 31, 2016 and December 31, 2015	76,509	29,144
Total current assets	82,562	85,772
Equipment, net of accumulated depreciation of \$10,514 and \$8,776 at March 31, 2016 and December 31, 2015, respectively	10,382	12,121
Long-term prepaid insurance, net of current portion of \$14,945 at March 31, 2016 and December 31, 2015	44,213	47,949
Total assets	\$137,157	\$145,842
LIABILITIES AND STOCKHOLDERS' DEFICIENCY		
Current liabilities:		
Accounts payable and accrued expenses, including \$136,392 and \$111,688 payable to related parties at March 31, 2016 and December 31, 2015, respectively	\$1,769,340	\$1,434,429
Accrued compensation and related expenses	1,019,509	710,409
10% convertible notes payable, including accrued interest of \$77,330 and \$61,388, net of unamortized discounts of \$222,443 and \$342,932 at March 31, 2016 and December 31, 2015, respectively	434,387	297,956
Note payable to Samyang, including accrued interest of \$183,218 and \$171,257 at March 31, 2016 and December 31, 2015, respectively	590,939	561,568
Notes payable to officers, including accrued interest of \$1,729	106,929	-
Other short-term note payable, including accrued interest of \$8	-	3,689

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Total current liabilities	3,921,104	3,008,051
Commitments and contingencies (Note 8)		
Stockholders' deficiency:		
Series B convertible preferred stock, \$0.001 par value; \$0.6667 per share liquidation preference; aggregate liquidation preference \$25,001; shares authorized: 37,500; shares issued and outstanding: 37,500; common shares issuable upon conversion at 0.09812 per share: 3,679	21,703	21,703
Series G 1.5% cumulative mandatorily convertible preferred stock, \$0.001 par value, \$1,000 per share stated value and liquidation preference; aggregate liquidation preference (including dividends) \$259,547 and \$258,566 at March 31, 2016 and December 31, 2015, respectively; shares authorized: 1,700; shares issued and outstanding: 259.5 and 258.6 at March 31, 2016 and December 31, 2015, respectively; common shares issuable upon conversion at 303,030.3 common shares per Series G share: 78,650,575 shares, including 2,371,791 shares issuable for dividends of \$7,827 at March 31, 2016, and 78,353,485 shares, including 2,074,698 shares issuable for dividends of \$6,847 at December 31, 2015	259,547	258,566
Common stock, \$0.001 par value; shares authorized: 1,400,000,000; shares issued and outstanding: 498,622,133 and 489,846,883 at March 31, 2016 and December 31, 2015, respectively	498,622	489,847
Additional paid-in capital	146,397,967	144,647,529
Accumulated deficit	(150,961,786)	(148,279,854)
Total stockholders' deficiency	(3,783,947)	(2,862,209)
Total liabilities and stockholders' deficiency	\$ 137,157	\$ 145,842

See accompanying notes to condensed consolidated financial statements (unaudited).

RESPIRERX PHARMACEUTICALS INC.**AND SUBSIDIARY****CONDENSED CONSOLIDATED STATEMENTS OF OPERATIONS****(Unaudited)**

	Three Months Ended March	
	31, 2016	2015
Grant revenues	\$-	\$74,534
Operating expenses:		
General and administrative, including \$1,163,411 and \$10,000 to related parties for the three months ended March 31, 2016 and 2015, respectively	1,499,640	229,900
Research and development, including \$417,960 and \$76,290 to related parties for the three months ended March 31, 2016 and 2015, respectively	917,136	440,792
Total operating expenses	2,416,776	670,692
Loss from operations	(2,416,776)	(596,158)
Gain on settlement with former management	-	92,550
Interest expense, including \$98,366 and \$0 to related parties for the three months ended March 31, 2016 and 2015, respectively	(246,765)	(228,534)
Foreign currency transaction (loss) gain	(17,410)	4,190
Net loss	(2,680,951)	(727,952)
Adjustments related to Series G 1.5% Convertible Preferred Stock:		
Dividends on Series G 1.5% Convertible Preferred Stock	(981)	(3,198)
Net loss attributable to common stockholders	\$(2,681,932)	\$(731,150)
Net loss per common share - basic and diluted	\$(0.01)	\$(0.00)
Weighted average common shares outstanding - basic and diluted	495,932,569	238,705,800

See accompanying notes to condensed consolidated financial statements (unaudited).

RESPIRERX PHARMACEUTICALS INC.**AND SUBSIDIARY****CONDENSED CONSOLIDATED STATEMENTS OF STOCKHOLDERS' DEFICIENCY****(Unaudited)****Three Months Ended March 31, 2016**

	Series B Convertible Preferred Stock		Series G 1.5% Convertible Preferred Stock		Common Stock		Additional Paid-in Capital	Accumulated Deficit	Total Stockholder Deficiency
	Shares	Amount	Shares	Amount	Shares	Par Value			
Balance, December 31, 2015	37,500	\$21,703	258.6	\$258,566	489,846,883	\$489,847	\$144,647,529	\$(148,279,854)	\$(2,862,209)
Sale of common stock units in private placement	-	-	-	-	8,775,250	8,775	185,860	-	194,635
Costs incurred in connection with sale of common stock units	-	-	-	-	-	-	(3,429)	-	(3,429)
Fair value of common stock options issued as compensation	-	-	-	-	-	-	1,471,371	-	1,471,371
Fair value of common stock warrants issued as additional consideration in connection with loans from officers	-	-	-	-	-	-	96,636	-	96,636

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Dividends on Series G 1.5% Convertible Preferred Stock	-	-	0.9	981	-	-	-	(981)	-
Net loss	-	-	-	-	-	-	-	(2,680,951)	(2,680,951)
Balance, March 31, 2016	37,500	\$21,703	259.5	\$259,547	498,622,133	\$498,622	\$146,397,967	\$(150,961,786)		\$(3,783,947)

See accompanying notes to condensed consolidated financial statements (unaudited).

RESPIRERX PHARMACEUTICALS INC.**AND SUBSIDIARY****CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS****(Unaudited)**

	Three Months Ended	
	March 31,	
	2016	2015
Cash flows from operating activities:		
Net loss	\$(2,680,951)	\$(727,952)
Adjustments to reconcile net loss to net cash used in operating activities:		
Depreciation expense	1,739	1,902
Amortization of discounts related to convertible notes payable	120,490	165,997
Amortization of capitalized financing costs	-	37,098
Fair value of warrants issued as additional consideration in connection with loans from officers	96,636	-
Gain on settlement with former management	-	(92,550)
Stock-based compensation expense included in -		
General and administrative expenses	1,030,831	-
Research and development expenses	440,540	72,000
Foreign currency transaction loss (gain)	17,410	(4,190)
Changes in operating assets and liabilities:		
(Increase) decrease in -		
Grant receivable	-	19,417
Prepaid expenses	(43,629)	5,256
Increase (decrease) in -		
Accounts payable and accrued expenses	334,911	327,379
Accrued compensation and related expenses	309,100	(7,500)
Accrued interest payable	29,623	24,691
Unearned grant revenue	-	(21,951)
Net cash used in operating activities	(343,300)	(200,403)
Cash flows from investing activities:		
Purchases of equipment	-	(2,497)
Net cash used in investing activities	-	(2,497)
Cash flows from financing activities:		
Proceeds from sale of common stock units	194,635	-
Proceeds from convertible note and warrant financing	-	210,000

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Proceeds from issuance of note payable to officers	105,200	-
Principal paid on other short-term notes payable	(3,681) -
Cash payments made for deferred costs incurred in connection with convertible note and warrant financing	-	(15,700)
Net cash provided by financing activities	296,154	194,300
Cash and cash equivalents:		
Net decrease	(47,146) (8,600)
Balance at beginning of period	53,199	162,752
Balance at end of period	\$6,053	\$154,152
Supplemental disclosures of cash flow information:		
Cash paid for -		
Interest	\$8	\$750
Income taxes	\$-	\$-
Non-cash financing activities:		
Dividends on Series G 1.5% Convertible Preferred Stock	\$981	\$3,198
Deferred financing costs charged to additional paid-in capital	\$3,429	\$-
Short-term note payable issued in connection with financing of insurance policy premium	\$-	\$36,125
Stated value of Series G 1.5% Convertible Preferred Stock converted into common stock	\$-	\$25,324
Fair value of common stock options issued in connection with settlement with former management	\$-	\$25,450
Fair value of common stock warrants issued to investors in connection with the convertible note and warrant financing	\$-	\$112,557
Fair value of common stock warrants issued to placement agents in connection with the convertible note and warrant financing	\$-	\$12,726
Fair value of beneficial conversion feature of convertible notes payable issued to investors in connection with the convertible note and warrant financing	\$-	\$97,443

See accompanying notes to condensed consolidated financial statements (unaudited).

RESPIRERX PHARMACEUTICALS INC.

AND SUBSIDIARY

NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS

(Unaudited)

Three Months Ended March 31, 2016 and 2015

1. Basis of Presentation

The condensed consolidated financial statements of RespireRx Pharmaceuticals Inc. (“RespireRx”) and its wholly-owned subsidiary, Pier Pharmaceuticals, Inc. (“Pier”) (collectively referred to herein as the “Company,” unless the context indicates otherwise), at March 31, 2016 and for the three months ended March 31, 2016 and 2015, are unaudited. In the opinion of management, all adjustments (including normal recurring adjustments) have been made that are necessary to present fairly the consolidated financial position of the Company as of March 31, 2016, the results of its consolidated operations for the three months ended March 31, 2016 and 2015, and its consolidated cash flows for the three months ended March 31, 2016 and 2015. Consolidated operating results for the interim periods presented are not necessarily indicative of the results to be expected for a full fiscal year. The consolidated balance sheet at December 31, 2015 has been derived from the Company’s audited consolidated financial statements at such date.

The condensed consolidated financial statements and related notes have been prepared pursuant to the rules and regulations of the Securities and Exchange Commission (the “SEC”). Accordingly, certain information and footnote disclosures normally included in financial statements prepared in accordance with generally accepted accounting principles have been omitted pursuant to such rules and regulations. These condensed consolidated financial statements should be read in conjunction with the consolidated financial statements and other information included in the Company’s Annual Report on Form 10-K for the fiscal year ended December 31, 2015, as filed with the SEC.

2. Organization and Business

Organization

RespireRx was formed in 1987 under the name Cortex Pharmaceuticals, Inc. to engage in the discovery, development and commercialization of innovative pharmaceuticals for the treatment of neurological and psychiatric disorders. On December 16, 2015, the Company filed a Certificate of Amendment to its Second Restated Certificate of Incorporation with the Secretary of State of the State of Delaware to amend the Company's Second Restated Certificate of Incorporation to change the name of the Company from Cortex Pharmaceuticals, Inc. to RespireRx Pharmaceuticals Inc.

In 2011, prior management conducted a re-evaluation of RespireRx's strategic focus and determined that clinical development in the area of respiratory disorders, particularly sleep apnea and drug-induced respiratory depression, provided the most cost-effective opportunities for potential rapid development and commercialization of RespireRx's compounds. Accordingly, RespireRx narrowed its clinical focus at that time and sidelined other avenues of scientific inquiry. This re-evaluation provided the impetus for RespireRx's acquisition of Pier in August 2012.

The Company underwent a change in management in March 2013, and since then the Company's current management has continued to implement this strategic focus, including seeking the capital to fund such efforts. As a result of the Company's scientific discoveries and the acquisition of strategic, exclusive license agreements, management believes that the Company is now a leader in developing drugs for respiratory disorders, particularly sleep apneas and drug-induced respiratory depression.

Business

Since its formation in 1987, RespireRx has been engaged in the research and clinical development of a class of proprietary compounds known as ampakines, which act to enhance the actions of the excitatory neurotransmitter glutamate at AMPA glutamate receptors. Several ampakines, in both oral and injectable form, are being developed by the Company for the treatment of a variety of breathing disorders. In clinical studies, select ampakines have shown preliminary efficacy in central sleep apnea and in the control of respiratory depression produced by opioids, without altering their analgesic effects. In animal models of orphan disorders, such as Pompe Disease, spinal cord damage and perinatal respiratory distress, it has been demonstrated that certain ampakines improve breathing function. The Company's compounds belong to a new class of ampakines that do not display the undesirable side effects previously reported in animal models of earlier generations.

RespireRx owns patents and patent applications for certain families of chemical compounds, including ampakines, which claim the chemical structures and their use in the treatment of various disorders. These patents cover, among other compounds, the Company's lead ampakines CX1739 and CX1942, and extend through at least 2028.

On May 8, 2007, RespireRx entered into a license agreement, as subsequently amended, with the University of Alberta granting RespireRx exclusive rights to method of treatment patents held by the University of Alberta claiming the use of ampakines for the treatment of various respiratory disorders. These patents, along with RespireRx's own patents claiming chemical structures, comprise RespireRx's principal intellectual property supporting RespireRx's research and clinical development program in the use of ampakines for the treatment of respiratory disorders. RespireRx has completed pre-clinical studies indicating that several of its ampakines, including CX717, CX1739 and CX1942, were efficacious in treating drug induced respiratory depression caused by opioids or certain anesthetics without offsetting the analgesic effects of the opioids or the anesthetic effects of the anesthetics. In two clinical Phase 2 studies, one of which was published in a peer-reviewed journal, CX717, a predecessor compound to CX1739 and CX1942, antagonized the respiratory depression produced by fentanyl, a potent narcotic, without affecting the analgesia produced by this drug. In addition, RespireRx has conducted a Phase 2A clinical study in which patients with sleep apnea were administered CX1739, RespireRx's lead clinical compound. The results suggested that CX1739 might have use as a treatment for central sleep apnea ("CSA") and mixed sleep apnea, but not obstructive sleep apnea ("OSA").

In order to expand RespireRx's respiratory disorders program, RespireRx acquired 100% of the issued and outstanding equity securities of Pier effective August 10, 2012 pursuant to an Agreement and Plan of Merger. Pier was formed in June 2007 (under the name SteadySleep Rx Co.) as a clinical stage pharmaceutical company to develop a pharmacologic treatment for OSA and had been engaged in research and clinical development activities since formation.

Through the merger, RespireRx gained access to an Exclusive License Agreement (as amended, the "License Agreement") that Pier had entered into with the University of Illinois on October 10, 2007. The License Agreement covered certain patents and patent applications in the United States and other countries claiming the use of certain compounds referred to as cannabinoids, of which dronabinol is a specific example, for the treatment of sleep-related breathing disorders (including sleep apnea). Dronabinol is a synthetic derivative of the naturally occurring substance in the cannabis plant, otherwise known as Δ 9-THC (Δ 9-tetrahydrocannabinol). Pier's business plan was to determine whether dronabinol would significantly improve subjective and objective clinical measures in patients with OSA. In addition, Pier intended to evaluate the feasibility and comparative efficacy of a proprietary formulation of dronabinol.

The License Agreement granted Pier, among other provisions, exclusive rights: (i) to practice certain patents and patent applications, as defined in the License Agreement, that were then held by the University of Illinois; (ii) to identify, develop, make, have made, import, export, lease, sell, have sold or offer for sale any related licensed products; and (iii) to grant sub-licenses of the rights granted in the License Agreement, subject to the provisions of the License Agreement. Pier was required under the License Agreement, among other terms and conditions, to pay the University of Illinois a license fee, royalties, patent costs and certain milestone payments.

Prior to the merger, Pier conducted a 21 day, randomized, double-blind, placebo-controlled, dose escalation Phase 2 clinical study in 22 patients with OSA, in which dronabinol produced a statistically significant reduction in the Apnea-Hypopnea Index, the primary therapeutic end-point, and was observed to be safe and well tolerated. The University of Illinois and three other research centers are currently investigating dronabinol in a potentially pivotal, six week, double-blind, placebo-controlled Phase 2B clinical trial in 120 patients with OSA. The University of Illinois has indicated that it expects the final data collection under this clinical trial to be completed in May 2016. The Company is not managing or funding this ongoing clinical trial. This clinical trial is fully funded by the National Heart, Lung and Blood Institute of the National Institutes of Health.

Dronabinol is a Schedule III, controlled generic drug with a relatively low abuse potential that is approved by the U.S. Food and Drug Administration (the "FDA") for the treatment of AIDS-related anorexia and chemotherapy-induced emesis. The use of dronabinol for the treatment of OSA is a novel indication for an already approved drug and, as such, the Company believes that it would only require approval by the FDA of a supplemental new drug application.

The License Agreement was terminated effective March 21, 2013, due to the Company's failure to make a required payment. Subsequently, current management opened negotiations with the University of Illinois, and as a result, the Company entered into a new license agreement (the "2014 License Agreement") with the University of Illinois on June 27, 2014, the material terms of which were similar to the License Agreement that was terminated on March 21, 2013.

The Company filed an Investigational New Drug ("IND") application with the FDA in September 2015 to conduct a double-blind, placebo-controlled, dose-ascending Phase 2A clinical trial in approximately 18 subjects to determine the ability of orally administered CX1739, the Company's proprietary lead ampakine, to prevent the respiratory depression produced by remifentanyl, a potent opioid, without altering remifentanyl's analgesic properties. The clinical protocol was designed to evaluate the safety and efficacy of three escalating doses of CX1739 versus placebo when administered prior to remifentanyl, with respiration, analgesia and a number of other clinical measures being taken after administration of both drugs. The commencement of this clinical trial was subject to resolution of two deficiencies raised by the FDA in its clinical hold letter issued in November 2015. These issues were satisfactorily resolved in early 2016, and the FDA removed the clinical hold on the Company's IND for CX1739 on February 25, 2016, thus allowing for the initiation of the clinical trial. During March 2016, upon receiving unconditional approval from the Institutional Review Board ("IRB") of the Duke Clinical Research Unit, this Phase 2A clinical trial at Duke University School of Medicine was initiated. The Company expects to incur approximately \$750,000 of direct costs in 2016 with respect to this clinical trial (of which approximately \$163,000 was incurred during the three months ended March 31, 2016), to complete the final data collection with respect to the clinical trial by the end of May 2016, and to issue a report on the results of the clinical trial during the third quarter of 2016. Subsequent to March 31, 2016, the Company paid Duke University an upfront advance for clinical trial costs of \$111,654.

Going Concern

The Company's condensed consolidated financial statements have been presented on the basis that it is a going concern, which contemplates the realization of assets and satisfaction of liabilities in the normal course of business. The Company has incurred net losses of \$2,680,951 for the three months ended March 31, 2016 and \$5,961,892 for the fiscal year ended December 31, 2015, and negative operating cash flows of \$343,300 for the three months ended March 31, 2016 and \$1,296,100 for the fiscal year ended December 31, 2015. The Company also had a stockholders' deficiency of \$3,783,947 at March 31, 2016, and expects to continue to incur net losses and negative operating cash flows for at least the next few years. As a result, management has concluded that there is substantial doubt about the Company's ability to continue as a going concern, and the Company's independent registered public accounting firm, in their report on the Company's consolidated financial statements for the year ended December 31, 2015, has expressed substantial doubt about the Company's ability to continue as a going concern.

The Company is currently, and has for some time, been in significant financial distress. It has limited cash resources and current assets and has no ongoing source of sustainable revenue. Management is continuing to address various aspects of the Company's operations and obligations, including, without limitation, debt obligations, financing requirements, intellectual property, licensing agreements, legal and patent matters and regulatory compliance, and has continued to raise new debt and equity capital to fund the Company's business activities from both related and

unrelated parties, as described at Notes 4 and 6.

The Company is continuing its efforts to raise additional capital in order to be able to pay its liabilities and fund its business activities on a going forward basis, including a recent increase in the Company's research and development activities. The Company regularly evaluates various measures to satisfy the Company's liquidity needs, including developing agreements with collaborative partners and, when necessary, seeking to exchange or restructure the Company's outstanding securities. As a result of the Company's current financial situation, the Company has limited access to external sources of debt and equity financing. Accordingly, there can be no assurances that the Company will be able to secure additional financing in the amounts necessary to fully fund its operating and debt service requirements. If the Company is unable to access sufficient cash resources, the Company may be forced to discontinue its operations entirely and liquidate.

3. Summary of Significant Accounting Policies

Principles of Consolidation

The accompanying condensed consolidated financial statements are prepared in accordance with United States generally accepted accounting principles ("GAAP") and include the financial statements of RespireRx and its wholly-owned subsidiary, Pier. Intercompany balances and transactions have been eliminated in consolidation.

Use of Estimates

The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions. These estimates and assumptions affect the reported amounts of assets and liabilities, disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual amounts may differ from those estimates.

Concentrations of Credit Risk

Financial instruments that potentially subject the Company to concentrations of credit risk consist primarily of cash and cash equivalents. The Company limits its exposure to credit risk by investing its cash with high quality financial institutions. The Company's cash balances may periodically exceed federally insured limits. The Company has not experienced a loss in such accounts to date.

Cash Equivalents

The Company considers all highly liquid short-term investments with maturities of less than three months when acquired to be cash equivalents.

Fair Value of Financial Instruments

The authoritative guidance with respect to fair value established a fair value hierarchy that prioritizes the inputs to valuation techniques used to measure fair value into three levels, and requires that assets and liabilities carried at fair value be classified and disclosed in one of three categories, as presented below. Disclosure as to transfers into and out of Levels 1 and 2, and activity in Level 3 fair value measurements, is also required.

Level 1. Observable inputs such as quoted prices in active markets for an identical asset or liability that the Company has the ability to access as of the measurement date. Financial assets and liabilities utilizing Level 1 inputs include active-exchange traded securities and exchange-based derivatives.

Level 2. Inputs, other than quoted prices included within Level 1, which are directly observable for the asset or liability or indirectly observable through corroboration with observable market data. Financial assets and liabilities utilizing Level 2 inputs include fixed income securities, non-exchange based derivatives, mutual funds, and fair-value hedges.

Level 3. Unobservable inputs in which there is little or no market data for the asset or liability which requires the reporting entity to develop its own assumptions. Financial assets and liabilities utilizing Level 3 inputs include infrequently-traded, non-exchange-based derivatives and commingled investment funds, and are measured using present value pricing models.

The Company determines the level in the fair value hierarchy within which each fair value measurement falls in its entirety, based on the lowest level input that is significant to the fair value measurement in its entirety. In determining the appropriate levels, the Company performs an analysis of the assets and liabilities at each reporting period end.

The carrying amount of financial instruments (consisting of cash, cash equivalents, grants receivable and accounts payable) is considered by the Company to be representative of the respective fair values of these instruments due to the short-term nature of those instruments. With respect to the note payable to Samyang and the convertible notes payable, management does not believe that the credit markets have materially changed for these types of borrowings since the original borrowing date.

Deferred Financing Costs

Costs incurred in connection with ongoing debt and equity financings, including legal fees, are deferred until the related financing is either completed or abandoned.

Costs related to abandoned debt or equity financings are charged to operations in the period of abandonment. Costs related to completed debt financings are presented as a direct deduction from the carrying amount of the related debt liability (see "Capitalized Financing Costs" below). Costs related to completed equity financings are charged directly to additional paid-in capital.

Capitalized Financing Costs

Through December 31, 2015, costs related to completed debt financings were capitalized on the balance sheet and amortized over the term of the related debt agreements. Amortization of these costs was calculated on the straight-line basis, which approximated the effective interest method, and was charged to interest expense in the consolidated statements of operations.

Pursuant to Accounting Standards Update No. 2015-03 (ASU 2015-03), Interest – Imputation of Interest (Subtopic 835-30), effective January 1, 2016, the Company is required to present debt issuance costs related to a debt liability in its consolidated balance sheet as a direct deduction from the carrying amount of that debt liability, consistent with the presentation for debt discounts. The Company is required to apply the new accounting guidance on a retrospective basis, wherein the balance sheet of each individual period presented is adjusted to reflect the period-specific effects of applying the new guidance, and is required to comply with the applicable disclosures for a change in an accounting principle. These disclosures include the nature of and reason for the change in accounting principle, the transition method, a description of the prior-period information that has been retrospectively adjusted, and the effect of the change on the financial statement line items (i.e., the debt issuance cost asset and the debt liability).

As the Company did not have any capitalized financing costs on its consolidated balance sheet at December 31, 2015 or at March 31, 2016, the implementation of ASU 2015-03 did not have any impact on the Company's financial statements as presented herein.

Series G 1.5% Convertible Preferred Stock

The Series G 1.5% Convertible Preferred Stock (including accrued dividends) issued in 2014 is mandatorily convertible into common stock at a fixed conversion rate on April 17, 2016 (if not converted earlier) and provides no right to receive a cash payment. Additionally, the Series G 1.5% Convertible Preferred Stock includes no participatory or reset rights, or other protections (other than normal anti-dilution rights) based on subsequent events, including equity transactions. Accordingly, the Company has determined that the Series G 1.5% Convertible Preferred Stock should be categorized in stockholders' equity (deficiency), and that there are no derivatives embedded in such security that would require identification, bifurcation and valuation. The Company did not issue any warrants to investors in conjunction with the Series G 1.5% Convertible Preferred Stock financing.

On March 18, 2014 and April 17, 2014, the Company issued 753.22 shares and 175.28 shares, respectively, of Series G 1.5% Convertible Preferred Stock at a purchase price of \$1,000 per share. Each share of Series G 1.5% Convertible Preferred Stock has a stated value of \$1,000 per share and is convertible into shares of common stock at a fixed price of \$0.0033 per share of common stock. On March 18, 2014 and April 17, 2014, the per share fair value of the common

stock into which the Series G 1.5% Convertible Preferred Stock was convertible, determined by reference to the closing market prices of the Company's common stock on such closing dates, was \$0.04 per share and \$0.0348 per share, respectively, which was greater than the effective purchase price of such common shares of \$0.0033 per share.

The Company accounted for the beneficial conversion features in accordance with Accounting Standards Codification ("ASC") 470-20, Accounting for Debt with Conversion and Other Options. The Company calculated a deemed dividend on the Series G 1.5% Convertible Preferred Stock of \$8,376,719 in March 2014 and \$1,673,127 in April 2014, which equals the amount by which the estimated fair value of the common stock issuable upon conversion of the issued Series G 1.5% Convertible Preferred Stock exceeded the proceeds from such issuances. The deemed dividend on the Series G 1.5% Convertible Preferred Stock was amortized on the straight-line basis from the respective issuance dates through the earliest conversion date of June 16, 2014, in accordance with ASC 470-20. The difference between the amortization of the deemed dividend calculated based on the straight-line method and the effective yield method was not material.

Dr. Arnold S. Lippa, Ph.D., the Chairman of the Company's Board of Directors and then Chief Executive Officer, purchased 250 shares for \$250,000, representing 33.2% of the 753.22 shares of Series G 1.5% Convertible Preferred Stock sold in the initial closing of such financing on March 18, 2014. The second (and final) closing of such financing consisted entirely of Series G 1.5% Convertible Preferred Stock sold to unaffiliated investors. Accordingly, Dr. Lippa purchased 26.9% of the entire amount of Series G 1.5% Convertible Preferred Stock sold in the financing. Dr. Lippa had been an officer and director of the Company for approximately one year when he purchased the 250 shares of Series G 1.5% Convertible Preferred Stock, and his investment, which was only a portion of the first closing, was made on the same terms and conditions as those provided to the other unaffiliated investors who made up the majority of the financing. Dr. Lippa did not control, directly or indirectly, 10% or more of the Company's voting equity securities at the time of his investment. The proportionate share of the deemed dividend attributable to Dr. Lippa's investment in the Series G 1.5% Convertible Preferred Stock in March 2014 was \$2,780,303. On April 18, 2014, the shares of Series G 1.5% Convertible Preferred Stock originally purchased by Dr. Lippa were transferred to the Arnold Lippa Family Trust of 2007. On April 15, 2015, these shares of Series G 1.5% Convertible Preferred Stock, plus accrued dividends of \$4,120, were converted into 77,006,072 shares of common stock.

10% Convertible Notes Payable

Original Issuance of Notes and Warrants

The convertible notes sold to investors in 2014 and 2015 have an interest rate of 10% per annum and are convertible into common stock at a fixed price of \$0.035 per share. The convertible notes have no reset rights or other protections based on subsequent equity transactions, equity-linked transactions or other events. The warrants issued in connection with the sale of the convertible notes are exercisable at a fixed price of \$0.035 per share, provide no right to receive a cash payment, and include no reset rights or other protections based on subsequent equity transactions, equity-linked transactions or other events. The Company has determined that there are no embedded derivatives to be identified, bifurcated and valued in connection with this financing.

On November 5, 2014, the Company sold an aggregate principal amount of \$238,500 of its 10% convertible notes payable due September 15, 2015, which were subject to extension to September 15, 2016, at the option of the Company, subject to the issuance of additional warrants, and warrants to purchase shares of common stock exercisable into a fixed number of shares of common stock of the Company calculated as the principal amount of each convertible note divided by \$0.035 (reflecting 100% warrant coverage). The warrants do not have any cashless exercise provisions and, when issued, were exercisable through September 30, 2015 at a fixed price of \$0.035 per share. The shares of common stock issuable upon conversion of the notes payable and the exercise of the warrants are not subject to any registration rights.

On December 9, 2014, December 31, 2014, and February 2, 2015, the Company sold an additional \$46,000, \$85,000 and \$210,000, respectively, of principal amount of the convertible notes and warrants to various accredited investors. The Company terminated this financing, which had generated aggregate gross proceeds of \$579,500, and in connection with which the Company had issued 16,557,142 warrants, effective February 18, 2015.

The closing market prices of the Company's common stock on the transaction closing dates of November 5, 2014, December 9, 2014, December 31, 2014 and February 2, 2015 were \$0.0524 per share, \$0.0411 per share, \$0.0451 per share and \$0.043 per share, respectively, as compared to the fixed conversion price of the convertible notes and the fixed exercise price of the warrants of \$0.035 per share. Accordingly, the Company has accounted for the beneficial conversion features with respect to the sale of the convertible notes and the issuance of the warrants in accordance with ASC 470-20, Accounting for Debt with Conversion and Other Options.

The Company considered the face value of the convertible notes to be representative of their fair value. The Company determined the fair value of the warrants based on the Black-Scholes option-pricing model. The relative fair value method generated respective fair values for each of the convertible notes and the warrants of approximately 50% for

the convertible notes and approximately 50% for the warrants. Once these values were determined, the fair value of the warrants of \$289,106 and the fair value of the beneficial conversion feature of \$290,394 (which were calculated based on the effective conversion price) were recorded as a reduction to the face value of the promissory note obligation. As a result, this aggregate debt discount reduced the carrying value of the convertible notes to zero at each issuance date. The excess amount generated from this calculation was not recorded, as the carrying value of a promissory note cannot be reduced below zero. The aggregate debt discount was amortized as interest expense over the original term of the promissory notes. The difference between the amortization of the debt discount calculated based on the straight-line method and the effective yield method was not material.

The cash fees paid to placement agents and for legal costs incurred from November 5, 2014 through February 2, 2015 with respect to this financing were deferred and capitalized as deferred offering costs and were amortized to interest expense over the original term of the convertible notes through September 15, 2015 on the straight-line method. The placement agent warrants were considered as an additional cost of the offering and were included in deferred offering costs at fair value. The difference between the amortization of the deferred offering costs calculated based on the straight-line method and the effective yield method was not material.

Extension of Notes and Original Warrants, and Issuance of New Warrants

On August 13, 2015, the Company elected to extend the maturity date of the convertible notes to September 15, 2016. As a consequence of this election, under the terms of the convertible notes, the Company was required to issue to note holders 8,903,684 additional warrants (the “New Warrants”) that are exercisable through September 15, 2016. As set forth in the convertible notes, the New Warrants are exercisable for that number of shares of common stock of the Company calculated as the principal amount of the convertible notes (an aggregate amount of \$579,500), plus any accrued and unpaid interest (an aggregate amount of \$43,758), multiplied by 50%, and then divided by \$0.035. The New Warrants otherwise have terms substantially similar to the 16,557,142 original warrants issued to the investors. In connection with the extension of the maturity date of the convertible notes, the Board of Directors of the Company also determined to extend the termination date of the 16,557,142 original warrants to September 15, 2016, so that they were coterminous with the new maturity date of the convertible notes.

The Company reviewed the guidance in ASC 405-20, Extinguishment of Liabilities, and determined that the convertible notes had not been extinguished. The Company therefore concluded that the guidance in ASC 470-50, Modifications and Extinguishments, should be applied, which states that if the exchange or modification is not to be accounted for in the same manner as a debt extinguishment, then the fees shall be associated with the replacement or modified debt instrument and, along with any existing unamortized premium or discount, amortized as an adjustment of interest expense over the remaining term of the replacement or modified debt instrument using the interest method.

The Company deferred the debt modification costs related to the modification of the convertible notes and the issuance of the New Warrants (consisting of the fair value of the New Warrants) over the remaining term of the extended notes. The Company accounted for such costs as a discount to the convertible notes and amortized such costs to interest expense over the extended term of the convertible notes on the straight-line method. The difference between the amortization of these costs calculated based on the straight-line method and the effective yield method was not material.

The Company deferred the debt modification costs related to the extension of the original warrants (consisting of the fair value of the extension of the original warrants) over the remaining term of the extended convertible notes. The Company accounted for such costs as a discount to the convertible notes and amortized such costs to interest expense over the extended term of the convertible notes on the straight-line method. The difference between the amortization of these costs calculated based on the straight-line method and the effective yield method was not material.

The closing market price of the Company’s common stock on the extension date of September 15, 2015 was \$0.031 per share, as compared to the fixed conversion price of the convertible notes and the fixed exercise price of both the original warrants and the New Warrants of \$0.035 per share. The Company has accounted for the beneficial conversion features with respect to the extension of the convertible notes and the extension of the original warrants and the issuance of the New Warrants in accordance with ASC 470-20, Accounting for Debt with Conversion and

Other Options.

The Company considered the face value of the convertible notes, plus the accrued interest thereon, to be representative of their fair value. The Company determined the fair value of the 8,903,684 New Warrants and the fair value of extending the 16,557,142 original warrants based on the Black-Scholes option-pricing model. The relative fair value method generated respective fair values for each of the convertible notes, including accrued interest, and the New Warrants and extension of the original warrants, of approximately 55% for the convertible notes, including accrued interest, and approximately 45% for the New Warrants and extension of the original warrants. Once these values were determined, the fair value of the New Warrants and extension of the original warrants of \$277,918 and the fair value of the beneficial conversion feature of \$206,689 (which were calculated based on the effective conversion price) were recorded as a reduction to the face value of the promissory note obligation. The aggregate debt discount was amortized as interest expense over the extended term of the promissory notes. The difference between the amortization of the debt discount calculated based on the straight-line method and the effective yield method was not material.

Equipment

Equipment is recorded at cost and depreciated on a straight-line basis over their estimated useful lives, which range from three to five years.

Long-Term Prepaid Insurance

Long-term prepaid insurance represents the premium paid in March 2014 for directors and officer's insurance tail coverage, which is being amortized on a straight-line basis over the policy period of six years. The amount amortizable in the ensuing twelve month period is recorded as a current asset in the Company's consolidated balance sheet at each reporting date.

Impairment of Long-Lived Assets

The Company reviews its long-lived assets, including long-term prepaid insurance, for impairment whenever events or changes in circumstances indicate that the total amount of an asset may not be recoverable, but at least annually. An impairment loss is recognized when estimated future cash flows expected to result from the use of the asset and its eventual disposition is less than the asset's carrying amount. The Company has not deemed any long-lived assets as impaired at March 31, 2016.

Stock-Based Compensation

The Company periodically issues common stock and stock options to officers, directors, Scientific Advisory Board members and consultants for services rendered. Such issuances vest and expire according to terms established at the issuance date of each grant.

The Company accounts for stock-based payments to officers and directors by measuring the cost of services received in exchange for equity awards based on the grant date fair value of the awards, with the cost recognized as compensation expense on the straight-line basis in the Company's financial statements over the vesting period of the awards. The Company accounts for stock-based payments to Scientific Advisory Board members and consultants by determining the value of the stock compensation based upon the measurement date at either (a) the date at which a performance commitment is reached, or (b) at the date at which the necessary performance to earn the equity instruments is complete.

Stock grants, which are generally subject to time-based vesting, are measured at the grant date fair value and charged to operations ratably over the vesting period.

Stock options granted to members of the Company's Scientific Advisory Board and to outside consultants are revalued each reporting period until vested to determine the amount to be recorded as an expense in the respective period. As the stock options vest, they are valued on each vesting date and an adjustment is recorded for the difference between the value already recorded and the value on the date of vesting.

The fair value of stock options granted as stock-based compensation is determined utilizing the Black-Scholes option-pricing model, and is affected by several variables, the most significant of which are the life of the equity award, the exercise price of the stock option as compared to the fair market value of the common stock on the grant date, and the estimated volatility of the common stock over the term of the equity award. Estimated volatility is based on the historical volatility of the Company's common stock. The risk-free interest rate is based on the U.S. Treasury yield curve in effect at the time of grant. The fair market value of common stock is determined by reference to the quoted market price of the Company's common stock.

Stock options and warrants issued to non-employees as compensation for services to be provided to the Company or in settlement of debt are accounted for based upon the fair value of the services provided or the estimated fair value of the stock option or warrant, whichever can be more clearly determined. Management utilizes the Black-Scholes option-pricing model to determine the fair value of the stock options and warrants issued by the Company. The Company recognizes this expense over the period in which the services are provided.

For stock options granted during the three months ended March 31, 2016, the fair value of each option award was estimated using the Black-Scholes option-pricing model with the following assumptions:

Risk-free interest rate	1.23	%
Expected dividend yield	0	%
Expected volatility	201	%
Expected life	4.4 to 5	years

For stock options granted during the three months ended March 31, 2015, the fair value of each option award was estimated using the Black-Scholes option-pricing model with the following assumptions:

Risk-free interest rate	1.3	%
Expected dividend yield	0	%
Expected volatility	249	%
Expected life	5	years

The Company recognizes the fair value of stock-based compensation in general and administrative costs and in research and development costs, as appropriate, in the Company's consolidated statements of operations. The Company issues new shares of common stock to satisfy stock option and warrant exercises. There were no stock options exercised during the three months ended March 31, 2016 and 2015.

Income Taxes

The Company accounts for income taxes under an asset and liability approach for financial accounting and reporting for income taxes. Accordingly, the Company recognizes deferred tax assets and liabilities for the expected impact of differences between the financial statements and the tax basis of assets and liabilities.

The Company records a valuation allowance to reduce its deferred tax assets to the amount that is more likely than not to be realized. In the event the Company was to determine that it would be able to realize its deferred tax assets in the future in excess of its recorded amount, an adjustment to the deferred tax assets would be credited to operations in the period such determination was made. Likewise, should the Company determine that it would not be able to realize all or part of its deferred tax assets in the future, an adjustment to the deferred tax assets would be charged to operations in the period such determination was made.

Pursuant to Internal Revenue Code Sections 382 and 383, use of the Company's net operating loss and credit carryforwards may be limited if a cumulative change in ownership of more than 50% occurs within any three-year period since the last ownership change. The Company may have had a change in control under these Sections. However, the Company does not anticipate performing a complete analysis of the limitation on the annual use of the net operating loss and tax credit carryforwards until the time that it anticipates it will be able to utilize these tax attributes.

As of March 31, 2016, the Company did not have any unrecognized tax benefits related to various federal and state income tax matters and does not anticipate any material amount of unrecognized tax benefits within the next 12

months.

The Company is subject to U.S. federal income taxes and income taxes of various state tax jurisdictions. As the Company's net operating losses have yet to be utilized, all previous tax years remain open to examination by Federal authorities and other jurisdictions in which the Company currently operates or has operated in the past.

The Company accounts for uncertainties in income tax law under a comprehensive model for the financial statement recognition, measurement, presentation and disclosure of uncertain tax positions taken or expected to be taken in income tax returns as prescribed by GAAP. The tax effects of a position are recognized only if it is "more-likely-than-not" to be sustained by the taxing authority as of the reporting date. If the tax position is not considered "more-likely-than-not" to be sustained, then no benefits of the position are recognized. As of March 31, 2016, the Company had not recorded any liability for uncertain tax positions. In subsequent periods, any interest and penalties related to uncertain tax positions will be recognized as a component of income tax expense.

Foreign Currency Transactions

The note payable to Samyang, which is denominated in a foreign currency (the South Korean Won), is translated into the Company's functional currency (the United States Dollar) at the exchange rate on the balance sheet date. The foreign currency exchange gain or loss resulting from translation is recognized in the related consolidated statements of operations.

Research Grants

The Company recognizes revenues from research grants as earned based on the percentage-of-completion method of accounting and issues invoices for contract amounts billed based on the terms of the grant agreement. Amounts recorded under research grants in excess of amounts earned are classified as unearned grant revenue liability in the Company's consolidated balance sheet. Grant receivable reflects contractual amounts due and payable under the grant agreement. The payment of grants receivable are based on progress reports provided to the grant provider by the Company. The research grant was completed in April 2015. The Company has filed all required progress reports.

Research grants are generally funded and paid through government or institutional programs. Amounts received under research grants are nonrefundable, regardless of the success of the underlying research project, to the extent that such amounts are expended in accordance with the approved grant project. During the three months ended March 31, 2016 and 2015, the Company had research grant revenues of \$0 and \$74,534, respectively. At March 31, 2016 and December 31, 2015, the Company did not have any grants receivable or unearned grant revenues.

Research and Development Costs

Research and development costs consist primarily of fees paid to consultants and outside service providers and organizations (including research institutes at universities), patent fees and costs, and other expenses relating to the acquisition, design, development and clinical testing of the Company's treatments and product candidates.

Research and development costs incurred by the Company under research grants are expensed as incurred over the life of the underlying contracts, unless the terms of the contract indicate that a different expensing schedule is more appropriate.

The Company reviews the status of its research and development contracts on a quarterly basis.

License Agreements

Obligations incurred with respect to mandatory payments provided for in license agreements are recognized ratably over the appropriate period, as specified in the underlying license agreement, and are recorded as liabilities in the Company's condensed consolidated balance sheet, with a corresponding charge to research and development costs in the Company's condensed consolidated statement of operations. Obligations incurred with respect to milestone payments provided for in license agreements are recognized when it is probable that such milestone will be reached, and are recorded as liabilities in the Company's condensed consolidated balance sheet, with a corresponding charge to research and development costs in the Company's condensed consolidated statement of operations. Payments of such liabilities are made in the ordinary course of business.

Patent Costs

Due to the significant uncertainty associated with the successful development of one or more commercially viable products based on the Company's research efforts and any related patent applications, all patent costs, including patent-related legal and filing fees, are expensed as incurred.

Comprehensive Income (Loss)

Components of comprehensive income or loss, including net income or loss, are reported in the financial statements in the period in which they are recognized. Comprehensive income or loss is defined as the change in equity during a period from transactions and other events and circumstances from non-owner sources. Net income (loss) and other comprehensive income (loss) are reported net of any related tax effect to arrive at comprehensive income (loss). The Company did not have any items of comprehensive income (loss) for the three months ended March 31, 2016 and 2015.

Earnings per Share

The Company's computation of earnings per share ("EPS") includes basic and diluted EPS. Basic EPS is measured as the income (loss) attributable to common stockholders divided by the weighted average common shares outstanding for the period. Diluted EPS is similar to basic EPS but presents the dilutive effect on a per share basis of potential common shares (e.g., warrants and options) as if they had been converted at the beginning of the periods presented, or issuance date, if later. Potential common shares that have an anti-dilutive effect (i.e., those that increase income per share or decrease loss per share) are excluded from the calculation of diluted EPS.

Net income (loss) attributable to common stockholders consists of net income or loss, as adjusted for actual and deemed preferred stock dividends declared, amortized or accumulated.

Loss per common share is computed by dividing net loss by the weighted average number of shares of common stock outstanding during the respective periods. Basic and diluted loss per common share is the same for all periods presented because all warrants and stock options outstanding are anti-dilutive.

At March 31, 2016 and 2015, the Company excluded the outstanding securities summarized below, which entitle the holders thereof to acquire shares of common stock, from its calculation of earnings per share, as their effect would have been anti-dilutive.

	March 31,	
	2016	2015
Series B convertible preferred stock	3,679	3,679
Series G 1.5% convertible preferred stock	78,650,575	257,760,939
10% convertible notes payable	18,766,564	17,034,702
Common stock warrants	180,274,428	32,106,094
Common stock options	421,823,581	26,216,668
Total	699,518,827	333,122,082

Reclassifications

Certain comparative figures in 2015 have been reclassified to conform to the current year's presentation. These reclassifications were immaterial, both individually and in the aggregate.

Recent Accounting Pronouncements

In May 2014, the Financial Accounting Standards Board (the "FASB") issued Accounting Standards Update No. 2014-09 (ASU 2014-09), Revenue from Contracts with Customers. ASU 2014-09 will eliminate transaction- and industry-specific revenue recognition guidance under current GAAP and replace it with a principle based approach for determining revenue recognition. ASU 2014-09 will require that companies recognize revenue based on the value of transferred goods or services as they occur in the contract. ASU 2014-09 also will require additional disclosure about the nature, amount, timing and uncertainty of revenue and cash flows arising from customer contracts, including significant judgments and changes in judgments and assets recognized from costs incurred to obtain or fulfill a contract. Based on the FASB's Exposure Draft Update issued on April 29, 2015, and approved in July 2015, Revenue from Contracts With Customers (Topic 606): Deferral of the Effective Date, ASU 2014-09 is now effective for reporting periods beginning after December 15, 2017, with early adoption permitted only as of annual reporting periods beginning after December 15, 2016, including interim reporting periods within that reporting period. Entities will be able to transition to the standard either retrospectively or as a cumulative-effect adjustment as of the date of adoption. The adoption of ASU 2014-09 is not expected to have any impact on the Company's financial statement

presentation or disclosures.

In August 2014, the FASB issued Accounting Standards Update No. 2014-15 (ASU 2014-15), Presentation of Financial Statements - Going Concern (Subtopic 205-10). ASU 2014-15 provides guidance as to 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 disclosures. In connection with preparing financial statements for each annual and interim reporting period, an entity's management should evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the entity's ability to continue as a going concern within one year after the date that the financial statements are issued (or within one year after the date that the financial statements are available to be issued when applicable). Management's evaluation should be based on relevant conditions and events that are known and reasonably knowable at the date that the financial statements are issued (or at the date that the financial statements are available to be issued when applicable). Substantial doubt about an entity's ability to continue as a going concern exists when relevant conditions and events, considered in the aggregate, indicate that it is probable that the entity will be unable to meet its obligations as they become due within one year after the date that the financial statements are issued (or available to be issued). ASU 2014-15 is effective for the annual period ending after December 15, 2016, and for annual periods and interim periods thereafter. Early application is permitted. The adoption of ASU 2014-15 is not expected to have any impact on the Company's financial statement presentation and disclosures.

In February 2016, the FASB issued Accounting Standards Update No. 2016-02 (ASU 2016-02), Leases (Topic 842). ASU 2016-02 requires a lessee to record a right-of-use asset and a corresponding lease liability, initially measured at the present value of the lease payments, on the balance sheet for all leases with terms longer than 12 months, as well as the disclosure of key information about leasing arrangements. ASU 2016-02 requires recognition in the statement of operations of a single lease cost, calculated so that the cost of the lease is allocated over the lease term. ASU 2016-02 requires classification of all cash payments within operating activities in the statement of cash flows. Disclosures are required to provide the amount, timing and uncertainty of cash flows arising from leases. A modified retrospective transition approach is required for lessees for capital and operating leases existing at, or entered into after, the beginning of the earliest comparative period presented in the financial statements, with certain practical expedients available. ASU 2016-02 is effective for fiscal years beginning after December 15, 2018, including interim periods within those fiscal years. Early application is permitted. The Company has not yet evaluated the impact of the adoption of ASU 2016-02 on the Company's financial statement presentation or disclosures.

Management does not believe that any other recently issued, but not yet effective, authoritative guidance, if currently adopted, would have a material impact on the Company's financial statement presentation or disclosures.

4. Notes Payable

10% Convertible Notes Payable

On November 5, 2014, the Company entered into a Convertible Note and Warrant Purchase Agreement (the "Purchase Agreement") with various accredited, non-affiliated investors (each, a "Purchaser"), pursuant to which the Company sold an aggregate principal amount of \$238,500 of its (i) 10% Convertible Notes due September 15, 2015 (each a "Note", and together, the "Notes") and (ii) Warrants to purchase shares of common stock (the "Warrants") as described below. On December 9, 2014, December 31, 2014, and February 2, 2015, the Company sold an additional \$46,000, \$85,000 and \$210,000, respectively, of principal amount of the Notes and Warrants to various accredited investors. This private placement, which generated aggregate gross proceeds of \$579,500, was terminated effective February 18, 2015. Unless otherwise provided for in the Notes, the outstanding principal balance of each Note and all accrued and unpaid interest, compounded annually at 10%, when issued, was due and payable in full on September 15, 2015.

At any time, each Purchaser could elect, at its option and in its sole discretion, to convert the outstanding principal amount into a fixed number of shares of the Company's common stock equal to the quotient obtained by dividing the outstanding principal amount, plus any accrued and unpaid interest, by \$0.035. In the case of a Qualified Financing (as defined in the Purchase Agreement), the outstanding principal amount and accrued and unpaid interest under the Notes would automatically convert into common stock at a common stock equivalent price of \$0.035. In the case of an Acquisition (as defined in the Purchase Agreement), the Company could elect to either: (i) convert the outstanding principal amount and all accrued and unpaid interest under the Notes into shares of common stock or (ii) accelerate the maturity date of the Notes to the date of closing of the Acquisition. Each Warrant to purchase shares of common

stock was exercisable into a fixed number of shares of common stock of the Company calculated as each Purchaser's investment amount divided by \$0.035. The Warrants were originally exercisable through September 15, 2015 at a fixed price of \$0.035 per share and did not have any cashless exercise provisions. The shares of common stock issuable upon conversion of the Notes and exercise of the Warrants were not subject to any registration rights.

Placement agent fees, brokerage commissions, and similar payments were made in the form of cash and warrants to qualified referral sources in connection with the sale of the Notes and Warrants. In connection with the initial closing on November 5, 2014, fees of \$16,695 were paid in cash, based on 7% of the aggregate principal amount of the Notes issued to such referral sources, and the fees paid in warrants (the "Placement Agent Warrants") consisted of 477,000 warrants, reflecting warrants for that number of shares equal to 7% of the number of shares of common stock into which the corresponding Notes are convertible. In connection with the second closing, fees of \$700 were paid in cash and 20,000 Placement Agent Warrants were issued. In connection with the third closing, fees of \$3,500 were paid in cash and 100,000 Placement Agent Warrants were issued. In connection with the fourth closing, fees of \$14,700 were paid in cash and 420,000 Placement Agent Warrants were issued. The Placement Agent Warrants have cashless exercise provisions and were exercisable through September 15, 2015 at a fixed price of \$0.035 per share. The warrants issued to the placement agent and/or its designees or affiliates in connection with the 2014 closings of the Purchase Agreement, to purchase 597,000 shares of the Company's common stock, were valued pursuant to the Black-Scholes option-pricing model at \$19,986, \$614 and \$3,340, respectively. The warrants issued to the placement agent and/or its designees or affiliates in connection with the February 2, 2015 closing of the Purchase Agreement, to purchase 420,000 shares of the Company's common stock, were valued pursuant to the Black-Scholes option-pricing model at \$12,726. Total financing costs relating to all closings of the Notes aggregated \$129,776, consisting of \$93,110 paid in cash and \$36,666 paid in the form of Placement Agent Warrants, and were being amortized as additional interest expense over the original term of the Notes through September 15, 2015. During the three months ended March 31, 2016 and 2015, \$0 and \$37,098, respectively, was charged to interest expense with respect to the amortization of capitalized financing costs.

Aurora Capital LLC, a related party as described at Note 7, was the placement agent for this financing, and Aurora and its designees and/or affiliates received aggregate fees in connection with this financing in the form of \$33,425 in cash and Placement Agent Warrants to purchase 955,000 shares of common stock in connection with the four closings.

The Notes and Warrants were offered and sold without registration under the Securities Act of 1933, as amended (the "Securities Act"), in reliance on the exemptions provided by Section 4(a)(2) of the Securities Act as provided in Rule 506 of Regulation D promulgated thereunder. The Notes and Warrants and the shares of common stock issuable upon conversion of the Notes and exercise of the Warrants were not registered under the Securities Act or any other applicable securities laws, and unless so registered, may not be offered or sold in the United States except pursuant to an exemption from the registration requirements of the Securities Act.

The Company used the Black-Scholes option-pricing model to estimate the fair value of the Warrants to purchase 16,557,142 shares of the Company's common stock sold to investors in connection with the four closings at a fixed exercise price of \$0.035 per share. The Company considered the face value of the Notes to be representative of their fair value. The Company applied the relative fair value method to allocate the proceeds from the borrowing to the Notes and the Warrants. Consequently, approximately 50% of the proceeds of the borrowing of \$290,394 were attributed to the debt instrument. The 50% value attributed to the Warrants of \$289,106 was amortized as additional interest expense over the original term of the Notes. During the three months ended March 31, 2016 and 2015, \$0 and \$82,667, respectively, was charged to interest expense from the amortization of debt discount related to the value attributed to the Warrants. The carrying value of the Notes was further reduced by a discount for a beneficial conversion feature of \$290,394. The value attributed to the beneficial conversion feature was amortized as additional interest expense over the original term of the Notes. During the three months ended March 31, 2016 and 2015, \$0 and \$83,320, respectively, was charged to interest expense from the amortization of debt discount related to the value attributed to the beneficial conversion feature.

On August 13, 2015, the Company, pursuant to the terms of the Notes, gave the Note holders written notice, thirty days in advance of the September 15, 2015 maturity date of the Notes, of the Company's election to extend the maturity date of the Notes to September 15, 2016. As a consequence of this election, under the terms of the Notes, the Company was required to issue to Note holders 8,903,684 additional warrants (the "New Warrants") that are exercisable through September 15, 2016. As set forth in the Notes, the New Warrants are exercisable for that number of shares of common stock of the Company calculated as the principal amount of the Notes (an aggregate amount of \$579,500), plus accrued and unpaid interest (an aggregate amount of \$43,758), multiplied by 50%, and then divided by \$0.035. The New Warrants otherwise have terms substantially similar to the 16,557,142 Warrants originally sold to investors. In connection with the extension of the maturity date of the Notes, the Board of Directors of the Company also determined to extend the termination date of the 16,557,142 original Warrants to September 15, 2016, so that they were coterminous with the new maturity date of the Notes.

The Company used the Black-Scholes option-pricing model to estimate the fair value of the New Warrants to purchase 8,903,684 shares of the Company's common stock and the fair value of extending the termination date of the

16,557,142 original Warrants sold to investors. The Company considered the face value of the Notes, plus the accrued interest thereon, to be representative of their fair value. The relative fair value method generated respective fair values for each of the Notes, including accrued interest, and the New Warrants and extension of the original Warrants, of approximately 55% for the Notes, including accrued interest, and approximately 45% for the New Warrants and extension of the original Warrants. The 45% value attributed to the New Warrants and extension of the original Warrants of \$277,918 was amortized as additional interest expense over the extended term of the Notes. During the three months ended March 31, 2016 and 2015, \$69,100 and \$0, respectively, was charged to interest expense from the amortization of debt discount related to the value attributed to the New Warrants and extension of the original Warrants. The carrying value of the Notes was further reduced by a discount for a beneficial conversion feature of \$206,689. The value attributed to the beneficial conversion feature was amortized as additional interest expense over the extended term of the Notes. During the three months ended March 31, 2016 and 2015, \$51,390 and \$0, respectively, was charged to interest expense from the amortization of debt discount related to the value attributed to the beneficial conversion feature.

The 10% Convertible Notes Payable consist of the following at March 31, 2016 and December 31, 2015:

	March 31, 2016	December 31, 2015
Principal amount of notes payable	\$579,500	\$ 579,500
Add accrued interest payable	77,330	61,388
	656,830	640,888
Less unamortized costs:		
Stock warrant discounts	(127,569)	(196,669)
Beneficial conversion feature discounts	(94,874)	(146,263)
Capitalized financing costs	-	-
	\$434,387	\$ 297,956

None of the 10% Convertible Notes Payable had been converted into shares of the Company's common stock through March 31, 2016. As of March 31, 2016, the 10% Convertible Notes Payable were convertible into 18,766,564 shares of the Company's common stock, including 2,209,421 shares attributable to accrued interest of \$77,330 payable as of such date. As of December 31, 2015, the 10% Convertible Notes Payable were convertible into 18,311,079 shares of the Company's common stock, including 1,753,936 shares attributable to accrued interest of \$61,388 payable as of such date. Subsequent to March 31, 2016, the Company entered into exchange transactions with certain of the holders of the 10% Convertible Notes Payable, as described at Note 10.

Effective September 14, 2015, placement agent warrants previously issued in connection with the four closings of the Note and Warrant financing in December 2014 through February 2015, representing the right to acquire a total of 1,017,000 shares of common stock, were exercised on a cashless basis, resulting in the net issuance of 47,109 shares of common stock. The gross exercise price of the placement agent warrants that were exercised on a cashless basis was \$35,595.

Note Payable to Samyang

On June 25, 2012, the Company borrowed 465,000,000 Won (the currency of South Korea, equivalent to approximately \$400,000 United States Dollars) from and executed a secured note payable to SY Corporation Co., Ltd., formerly known as Samyang Optics Co. Ltd. ("SAMYANG"), an approximately 20% common stockholder of the Company at that time. SAMYANG was a significant stockholder and a related party at the time of the transaction, but was not considered a significant stockholder or related party at March 31, 2016. The note accrues simple interest at the rate of 12% per annum and had a maturity date of June 25, 2013. The Company has not made any payments on the promissory note. At June 30, 2013 and subsequently, the promissory note was outstanding and in technical default, although SAMYANG has not issued a notice of default or a demand for repayment. The Company believes that SAMYANG is in default of its obligations under its January 2012 license agreement, as amended, with the Company, but the Company has not yet issued a notice of default. The Company is continuing efforts towards a comprehensive

resolution of the aforementioned matters involving Samyang.

The promissory note is secured by collateral that represents a lien on certain patents owned by the Company, including composition of matter patents for certain of the Company's high impact ampakine compounds and the low impact ampakine compounds CX2007 and CX2076, and other related compounds. The security interest does not extend to the Company's patents for its ampakine compounds CX1739 and CX1942, or to the patent for the use of ampakine compounds for the treatment of respiratory depression.

Note payable to Samyang consists of the following at March 31, 2016 and December 31, 2015:

	March 31, 2016	December 31, 2015
Principal amount of note payable	\$399,774	\$ 399,774
Accrued interest payable	183,218	171,257
Foreign currency transaction adjustment	7,947	(9,463)
	\$590,939	\$ 561,568

Interest expense with respect to this promissory note was \$11,961 and \$11,993 for the three months ended March 31, 2016 and 2015, respectively.

Advances and Notes Payable to Officers

On June 16, 2015, Dr. Arnold S. Lippa, the Chairman of the Company's Board of Directors and then Chief Executive Officer, advanced \$40,000 to the Company for working capital purposes. Such advance was due on demand with interest at 10% per annum. On September 3, 2015, the Company repaid the working capital advance, including accrued interest of \$877, from the proceeds from the August and September 2015 closings of the private placement of its units of common stock and warrants.

On January 29, 2016, Dr. Lippa, the Chairman of the Company's Board of Directors and then Chief Scientific Officer, advanced \$52,600 to the Company for working capital purposes under a demand promissory note with interest at 10% per annum. The note was secured by the assets of the Company. In connection with the loan, Dr. Lippa was issued a fully vested warrant to purchase 3,350,319 shares of the Company's common stock at an exercise price of \$0.0157 per share, which was the closing market price of the Company's common stock on the date of grant. The warrant expires on January 29, 2019 and may be exercised on a cashless basis. The aggregate grant date fair value of the warrant, as calculated pursuant to the Black-Scholes option-pricing model, was determined to be \$48,245, and was charged to interest expense as additional consideration for the loan during the three months ended March 31, 2016.

On February 2, 2016, Dr. James S. Manuso, the Company's Chief Executive Officer, advanced \$52,600 to the Company for working capital purposes under a demand promissory note with interest at 10% per annum. The note was secured by the assets of the Company. In connection with the loan, Dr. Manuso was issued a fully vested warrant to purchase 2,630,000 shares of the Company's common stock at an exercise price of \$0.02 per share, which was the closing market price of the Company's common stock on the date of grant. The warrant expires on February 2, 2019 and may be exercised on a cashless basis. The aggregate grant date fair value of the warrant, as calculated pursuant to the Black-Scholes option pricing model, was determined to be \$48,392, and was charged to interest expense as additional consideration for the loan during the three months ended March 31, 2016.

Other Short-Term Notes Payable

Other short-term notes payable at December 31, 2015 consisted of a premium financing agreement with respect to an insurance policy. The premium financing agreement dated March 14, 2015 was payable, with interest at 5.08% per annum, in ten monthly installments of \$3,697 through February 14, 2016.

5. Settlements

Effective January 29, 2015, the Company executed a settlement agreement with its former Vice President and Chief Financial Officer, as amended on February 4, 2015, that resulted in the settlement of potential claims for a total cash payment of \$26,000 to be paid on or before June 30, 2015 (of which \$6,000 was paid on execution and \$1,500 was paid in March 2015), plus the issuance of a stock option to purchase 500,000 shares of common stock exercisable at \$0.0512 (the closing market price on the date of grant) per share for a period of five years, and valued pursuant to the Black-Scholes option-pricing model at \$25,450. In addition to other provisions, the settlement agreement included mutual releases. The Company owed \$18,500 at March 31, 2015 for the remaining balance of the cash portion of the settlement. The settlement resulted in the Company recognizing a gain of \$92,550 during the three months ended March 31, 2015. On June 29, 2015, the settlement agreement was further amended, resulting in a cash payment of \$3,000 against the outstanding balance, an extension of the \$15,500 remaining balance due through December 31, 2015, subject to a further partial cash payment of \$3,000, which was paid on September 28, 2015, plus the issuance of a stock option to purchase 50,000 shares of common stock exercisable at \$0.018 per share (the closing market price on the date of grant) for a period of five years, and valued pursuant to the Black-Scholes option-pricing model at \$840. Accordingly, during the three months ended March 31, 2015 and the year ended December 31, 2015, the Company recorded a net gain of \$92,550 and \$91,710, respectively, with respect to the settlement, as amended, with its former Vice President and Chief Financial Officer. In December 2015, the remaining balance due of \$12,500, plus accrued interest of \$775, was paid as scheduled.

On April 8, 2015, the Company entered into a Settlement Agreement with one of its patent law firms to settle amounts due to such firm for services rendered and costs incurred with respect to foreign associates and outside vendors aggregating \$194,736. Pursuant to the terms of the Settlement Agreement, the law firm received a cash payment of \$15,000, non-qualified stock options to purchase 2,520,442 shares of common stock exercisable at \$0.0476 per share for a period of five years, and a short-term unsecured note payable in the principal amount of \$59,763. The stock options were valued pursuant to the Black-Scholes option-pricing model at \$119,217, based on the closing price of the Company's common stock on April 8, 2015 of \$0.0476 per share. The note payable bears interest at 10% per annum, which accrues and is payable at maturity, and is due at the earlier of (i) the closing of a transaction for the sale of the Company's capital stock that results in net proceeds to the Company of at least \$2,000,000, or (ii) December 31, 2015. In addition to various other provisions, the Settlement Agreement provides that the Company will have the option to pay for one-half of invoices for future legal services (excluding costs with respect to foreign associates and outside vendors) in the form of stock options. The Settlement Agreement also includes a release of the lien previously filed by the law firm against certain of the Company's patents and patent applications relating to its ampakine technology in the United States Patent and Trademark Office, as well as for mutual releases. The Company paid the note payable in December 2015 as scheduled.

During the year ended December 31, 2015, the Company executed agreements with four current professional service providers (including the Company's patent law firm referred to above) that resulted in the partial settlement of amounts owed to them by the Company. Obligations in the amount of \$916,827 were settled for \$15,000 in cash, the issuance of a short-term note payable in the amount of \$59,763 as described above, the issuance of 9,064,286 shares of common stock valued at \$158,625 (\$0.0175 per share), which was the then closing market price of the Company's common stock, and the issuance of stock options to purchase an aggregate of 31,618,470 shares of common stock exercisable, in each case, at the closing market price of the Company's common stock on the date of issuance of the stock options. Options for 2,520,442 shares were exercisable at \$0.0476 per share for a period of five years, and valued pursuant to the Black-Scholes option-pricing model at an aggregate of \$119,217 (\$0.0473 per share). Options for 29,098,028 shares were exercisable at \$0.0175 per share for a period of five years, and valued pursuant to the Black-Scholes option-pricing model at an aggregate of \$488,847 (\$0.0168 per share). The negotiated agreements resulted in the Company recognizing a gain of \$75,375 during the year ended December 31, 2015.

The Company continues to explore ways to reduce its indebtedness, and might in the future enter additional settlements of potential claims, including, without limitation, those by other former executives or third party creditors.

6. Stockholders' Deficiency

Preferred Stock

The Company has authorized a total of 5,000,000 shares of preferred stock, par value \$0.001 per share. As of March 31, 2016 and December 31, 2015, 1,250,000 shares were designated as 9% Cumulative Convertible Preferred Stock (non-voting, "9% Preferred Stock"); 37,500 shares were designated as Series B Convertible Preferred Stock (non-voting, "Series B Preferred Stock"); 205,000 shares were designated as Series A Junior Participating Preferred Stock (non-voting, "Series A Junior Participating Preferred Stock"); and 1,700 shares were designated as Series G 1.5% Convertible Preferred Stock. Accordingly, as of March 31, 2016, 3,505,800 shares of preferred stock were undesignated and may be issued with such rights and powers as the Board of Directors may designate.

There were no shares of 9% Preferred Stock or Series A Junior Participating Preferred Stock outstanding as of March 31, 2016 and December 31, 2015.

Series B Preferred Stock outstanding as of March 31, 2016 and December 31, 2015 consisted of 37,500 shares issued in a May 1991 private placement. Each share of Series B Preferred Stock is convertible into approximately 0.09812 shares of common stock at an effective conversion price of \$6.795 per share of common stock, which is subject to adjustment under certain circumstances. As of March 31, 2016 and December 31, 2015, the shares of Series B Preferred Stock outstanding are convertible into 3,679 shares of common stock. The Company may redeem the Series

B Preferred Stock for \$25,001, equivalent to \$0.6667 per share, an amount equal to its liquidation preference, at any time upon 30 days prior notice.

Series G 1.5% Convertible Preferred Stock

On March 18, 2014, the Company entered into Securities Purchase Agreements with various accredited investors (the “Initial Purchasers”), pursuant to which the Company sold an aggregate of 753.22 shares of its Series G 1.5% Convertible Preferred Stock for a purchase price of \$1,000 per share, or an aggregate purchase price of \$753,220. This financing represented the initial closing on the private placement (the “Series G Private Placement”). The Initial Purchasers in this tranche of the Series G Private Placement consisted of (i) Dr. Arnold S. Lippa, the Chairman of the Company’s Board of Directors and then Chief Executive Officer, who invested \$250,000 for 250 shares of Series G 1.5% Convertible Preferred Stock, and (ii) new, non-affiliated, accredited investors. Neither the Series G 1.5% Convertible Preferred Stock nor the underlying shares of common stock have any registration rights.

The placement agents and selected dealers in connection with the initial tranche of the Series G Private Placement received cash fees totaling \$3,955 as compensation and an obligation of the Company to issue warrants to acquire 12,865,151 shares of common stock, totaling approximately 5.6365% of the shares of common stock into which the Series G 1.5% Convertible Preferred Stock may convert, issuable upon completion of all closings of the Series G Private Placement and exercisable for five years, at a fixed price of \$0.00396, which is 120% of the conversion price at which the Series G 1.5% Convertible Preferred Stock may convert into the Company’s common stock. The warrants issuable to the placement agents and selected dealers in connection with the initial tranche of the Series G Private Placement were valued pursuant to the Black-Scholes option-pricing model at \$443,848.

The Series G 1.5% Convertible Preferred Stock has a stated value of \$1,000 per share and a stated dividend at the rate per share (as a percentage of the Stated Value per share) of 1.5% per annum, compounded quarterly, payable quarterly within 15 calendar days of the end of each fiscal quarter of the Company, in duly authorized, validly issued, fully paid and non-assessable shares of Series G 1.5% Convertible Preferred Stock, which may include fractional shares of Series G 1.5% Convertible Preferred Stock.

The Series G 1.5% Convertible Preferred Stock became convertible, beginning 60 days after the last share of Series G 1.5% Convertible Preferred Stock was issued in the Series G Private Placement, at the option of the holder, into common stock at the applicable conversion price, at a rate determined by dividing the Stated Value of the shares of Series G 1.5% Convertible Preferred Stock to be converted by the conversion price, subject to adjustments for stock dividends, splits, combinations and similar events as described in the form of Certificate of Designation. In addition, the Company has the right to require the holders of the Series G 1.5% Convertible Preferred Stock to convert such shares into common stock under certain enumerated circumstances as set forth in the Certificate of Designation.

Upon either (i) a Qualified Public Offering (as defined in the Certificate of Designation) or (ii) the affirmative vote of the holders of a majority of the Stated Value of the Series G 1.5% Convertible Preferred Stock issued and outstanding, all outstanding shares of Series G 1.5% Convertible Preferred Stock, plus all accrued or declared, but unpaid, dividends thereon, would have been mandatorily converted into such number of shares of common stock determined by dividing the Stated Value of such Series G 1.5% Convertible Preferred Stock (together with the amount of any accrued or declared, but unpaid, dividends thereon) by the Conversion Price (as defined in the Certificate of Designation).

To the extent not earlier converted, the remaining outstanding shares of Series G 1.5% Convertible Preferred Stock were automatically and mandatorily redeemable by conversion into shares of common stock on April 17, 2016, the two year anniversary of the date that the last shares of Series G 1.5% Convertible Preferred Stock were issued in the Series G Private Placement, at the Conversion Price of \$0.0033 per share. Information with respect to the conversion of the outstanding shares of Series G 1.5% Convertible Preferred Stock into shares of common stock on April 17, 2016 is set forth below.

Except as described in the Certificate of Designation, holders of the Series G 1.5% Convertible Preferred Stock voted together with holders of the Company common stock on all matters, on an as-converted to common stock basis, and not as a separate class or series (subject to limited exceptions).

In the event of any liquidation or winding up of the Company prior to and in preference to any Junior Securities (including common stock), the holders of the Series G 1.5% Convertible Preferred Stock would have been entitled to receive in preference to the holders of the Company common stock a per share amount equal to the Stated Value, plus any accrued and unpaid dividends thereon.

Purchasers in the Series G Private Placement of the Series G 1.5% Convertible Preferred Stock executed written consents in favor of (i) approving and adopting an amendment to the Company's certificate of incorporation that increases the number of authorized shares of the Company to 1,405,000,000, 1,400,000,000 of which are shares of common stock and 5,000,000 of which are shares of preferred stock, and (ii) approving and adopting the Cortex Pharmaceuticals, Inc. 2014 Equity, Equity-Linked and Equity Derivative Incentive Plan.

The shares of Series G 1.5% Convertible Preferred Stock were offered and sold without registration under the Securities Act in reliance on the exemptions provided by Section 4(a)(2) of the Securities Act as provided in Rule 506(b) of Regulation D promulgated thereunder. The shares of Series G 1.5% Convertible Preferred Stock and the Company's common stock issuable upon conversion of the shares of Series G 1.5% Convertible Preferred Stock have not been registered under the Securities Act or any other applicable securities laws, and unless so registered, may not be offered or sold in the United States except pursuant to an exemption from the registration requirements of the Securities Act.

On April 17, 2014, the Company entered into Securities Purchase Agreements with various accredited investors (together with the Initial Purchasers as defined above, the "Purchasers"), pursuant to which the Company sold an aggregate of an additional 175.28 shares of its Series G 1.5% Convertible Preferred Stock, for a purchase price of \$1,000 per share, or an aggregate purchase price of \$175,280. This was the second and final closing on the Series G Private Placement, in which a total of 928.5 shares of Series G 1.5% Convertible Preferred Stock were sold for an aggregate purchase price of \$928,500. The Purchasers in the second and final tranche of the Series G Private Placement consisted of new, non-affiliated, accredited investors and non-management investors who had also invested in the first closing of the Series G Private Placement. One of the investors in this second and final closing of the Series G Private Placement was an affiliate of an associated person of Aurora, a related party (see Note 7). Neither the Series G 1.5% Convertible Preferred Stock nor the underlying shares of common stock have any registration rights.

The placement agents and selected dealers in connection with the second tranche of the Series G Private Placement received cash fees of \$3,465 as compensation and an obligation of the Company to issue warrants to acquire 6,386,120 shares of common stock, totaling approximately 12% of the shares of common stock into which the Series G 1.5% Convertible Preferred Stock may convert, issuable upon completion of all closings of the Series G Private Placement and exercisable for five years, at a fixed price of \$0.00396, which is 120% of the conversion price at which the Series G 1.5% Convertible Preferred Stock may convert into the Company's common stock. The warrants issuable to the placement agents and selected dealers in connection with the second closing of the Series G Private Placement were valued pursuant to the Black-Scholes option-pricing model at \$220,321.

As the stated value of the Series G 1.5% Convertible Preferred Stock is \$1,000 per share, and the fixed conversion price is \$0.0033, each share of Series G 1.5% Convertible Preferred Stock was convertible into 303,030.3 shares of common stock. The aggregate of 928.5 shares of Series G 1.5% Convertible Preferred Stock sold in all of the closings of the Series G Private Placement were initially convertible into a total of 281,363,634 shares of common stock.

The Company recorded a dividend on the Series G 1.5% Convertible Preferred Stock of \$981 and \$3,198 for the three months ended March 31, 2016 and 2015, respectively, which was paid through the issuance of an additional 0.9 shares and 3.2 shares, respectively, of Series G 1.5% Convertible Preferred Stock.

The warrants that the placement agents and selected dealers received in connection with all closings of the Series G Private Placement, which were issued effective April 17, 2014, represent the right to acquire 19,251,271 shares of common stock exercisable for five years at a fixed price of \$0.00396, which is 120% of the conversion price at which the Series G 1.5% Convertible Preferred Stock may convert into the Company's common stock.

Aurora, a related party (see Note 7), was one of the placement agents for this financing, and Aurora and its designees and/or affiliates received fees in connection with this financing in the form of cash of \$2,800 and warrants to purchase 10,427,029 shares of common stock during the year ended December 31, 2014. Both Dr. Arnold S. Lippa and Jeff E. Margolis, officers and directors of the Company since March 22, 2013, have indirect ownership interests in Aurora through interests held in its members, and Jeff E. Margolis is also an officer of Aurora.

Effective August 25, 2015, a placement agent warrant issued on April 17, 2014 in conjunction with the Series G Private Placement of the Series G 1.5% Convertible Preferred Stock, representing the right to acquire a total of 2,412,878 shares of common stock, was exercised in part (50%, or 1,206,439 shares) on a cashless basis, resulting in the net issuance of 1,087,001 shares of common stock. The gross exercise price of the placement agent warrant that was exercised on a cashless basis was \$4,778.

During the three months ended March 31, 2015, 25,323,705 shares of Series G 1.5% Convertible Preferred Stock, including 0,323,705 dividend shares, were converted into 7,673,850 shares of common stock on a cashless basis. During the three months ended June 30, 2015, an aggregate of 538,208,190 shares of Series G 1.5% Convertible Preferred Stock, including 8,728,190 dividend shares, were converted into 163,093,392 shares of common stock on a cashless basis. During the three months ended September 30, 2015, an aggregate of 57,506,190 shares of Series G 1.5% Convertible Preferred Stock, including 1,206,190 dividend shares, were converted into 17,426,119 shares of common stock on a cashless basis. There were no conversions of Series G 1.5% Convertible Preferred Stock into shares of common stock during the three months ended December 31, 2015. Accordingly, during the year ended December 31, 2015, 621,038,085 shares of Series G 1.5% Convertible Preferred Stock, including 10,258,085 dividend shares, were converted into 188,193,359 shares of common stock on a cashless basis.

As of March 31, 2016, the remaining outstanding shares of Series G 1.5% Convertible Preferred Stock were convertible into 78,650,575 shares of the Company's common stock, including 2,371,791 shares attributable to the 1.5% dividend on such shares of \$7,827 accrued as of such date. As of December 31, 2015, the remaining outstanding shares of Series G 1.5% Convertible Preferred Stock were convertible into 78,353,485 shares of the Company's common stock, including 2,074,698 shares attributable to the 1.5% dividend on such shares of \$6,847 accrued as of such date.

On April 17, 2016, the remaining unconverted 259.7 shares of Series G 1.5% Convertible Preferred Stock outstanding (including accrued but unpaid dividends) were automatically and mandatorily redeemed by conversion into 78,706,282 newly issued shares of common stock at a conversion price of \$0.0033 per share.

Common Stock

As discussed above, the holders of the Series G 1.5% Convertible Preferred Stock approved and adopted an amendment to increase the number of authorized shares of the Company to 1,405,000,000, 1,400,000,000 of which are shares of common stock and 5,000,000 of which are shares of preferred stock. The Company also sought, and on April 17, 2014 obtained by written consent, sufficient votes of the holders of its common stock, voting as a separate class, to effect this amendment. A certificate of Amendment to the Company's Certificate of Incorporation to effect the increase in the authorized shares was filed with the Secretary of State of the State of Delaware on April 17, 2014.

On September 18, 2014, Dr. John Greer, Ph.D., was appointed to the position of Chairman of the Company's Scientific Advisory Board. Dr. Greer is Professor of Physiology and Alberta Innovates - Health Solutions Senior Scientist with the Neuroscience and Mental Health Institute at the University of Alberta, holds two grants regarding research into neuromuscular control of breathing, and is the inventor on the method of treatment patents licensed by the Company with respect to ampakines. In connection with the appointment of Dr. Greer as Chairman of the Company's Scientific Advisory Board on September 18, 2014, the Board of Directors awarded 2,000,000 shares of common stock of the Company to Dr. Greer (through his wholly-owned consulting company, Progress Scientific, Inc.), vesting 25% upon appointment, 25% on September 30, 2014, 25% on December 31, 2014, and 25% on March 31, 2015. The stock award was valued at \$0.066 per share, which was the closing price of the Company's common stock on September 18, 2014. This stock award was made under the Company's 2014 Equity, Equity-Linked and Equity Derivative Incentive Plan. During the period September 18, 2014 through December 31, 2014, the Company recorded charges to operations of \$99,000 with respect to this stock award. During the three months ended March 31, 2015, the Company recorded a final charge to operations of \$33,000 with respect to this stock award.

Effective October 15, 2014, Richard Purcell was appointed as the Company's Senior Vice President of Research and Development. In conjunction with his appointment, the Company agreed to issue to Mr. Purcell 2,000,000 shares of the Company's common stock, with 25% of such stock grant vesting and issuable every three months after the date of his appointment (i.e., on January 15, 2015, April 15, 2015, July 15, 2015 and October 15, 2015), subject to Mr. Purcell's continued relationship with the Company on each of the vesting dates. The stock grant was made under the Company's 2014 Equity, Equity-Linked and Equity Derivative Incentive Plan. Based on the Company's closing stock price on October 15, 2014 of \$0.078 per share, during the three months ended March 31, 2015, the Company recorded a charge to operations of \$39,000 with respect to this stock award.

On August 28, 2015, the Company entered into a Second Amended and Restated Common Stock and Warrant Purchase Agreement (the "Purchase Agreement") with various accredited investors (each, a "Purchaser", and together with

purchasers in subsequent closings in the private placement, the “Purchasers”), pursuant to which the Company sold units for aggregate cash consideration of \$721,180, with each unit consisting of (i) one share of the Company’s common stock, representing an aggregate of 34,292,917 shares of common stock, and (ii) one warrant to purchase two additional shares of common stock, representing an aggregate of 68,585,834 warrants. This financing represented the initial closing of a private placement of up to \$3,000,000. On September 28, 2015, the Company completed a second closing of the Purchase Agreement with various additional Purchasers, pursuant to which the Company sold units for aggregate cash consideration of \$218,530, with each unit consisting of (i) one share of the Company’s common stock, representing an aggregate of 10,391,349 shares of common stock, and (ii) one warrant to purchase two additional shares of common stock, representing an aggregate of 20,782,698 Warrants. On November 2, 2015, the Company completed a third closing of the Purchase Agreement with various Purchasers, pursuant to which the Company sold units for aggregate cash consideration of \$255,000, with each unit consisting of (i) one share of the Company’s common stock, representing an aggregate of 12,125,536 shares of common stock, and (ii) one warrant to purchase two additional shares of common stock, representing an aggregate of 24,251,072 Warrants. This third closing brought the aggregate amount raised under this private placement as of November 2, 2015 to \$1,194,710.

The unit price in each closing of the private placement was \$0.02103 (the “Per Unit Price”). The Warrants are exercisable through September 30, 2020 and may be exercised at a price of \$0.02103 for each share of Common Stock to be acquired upon exercise. The Purchasers consisted of non-affiliated investors, other than Dr. James S. Manuso, the current President and Chief Executive Officer of the Company, who invested \$250,000 in the initial closing of the private placement, and one other investor who invested \$301,180 in the private placement and became an affiliate of the Company by virtue of his aggregate stock holdings in the Company. The Warrants do not contain any cashless exercise provisions or reset rights.

No registration rights were granted to any Purchaser in this private placement with respect to (i) the shares of common stock issued as part of the units, (ii) the warrants, or (iii) the shares of common stock issuable upon exercise of the warrants.

Placement agent fees, brokerage commissions, and similar payments were made in the form of cash and warrants to qualified referral sources in connection with certain sales of the shares of common stock and warrants, while other sales, including the sale to Dr. James S. Manuso, did not result in any fees or commissions. Accordingly, the amount of such fees, on a percentage basis, varies in each closing. The fees paid to such referral sources for the initial closing in cash totaled \$47,118, or 6.5% of the aggregate amount paid for the units sold. The fees paid in warrants for the initial closing to such referral sources (the warrants paid to qualified referral sources are referred to herein as the "Placement Agent Warrants") consist of warrants for 2,240,517 shares of common stock, or that number of shares equal to 6.5% of the number of shares of common stock issued as part of the units, but not the shares underlying the warrants. In connection with the second closing, fees paid to referral sources in cash totaled \$18,603, or 8.5% of the aggregate amount paid for the units sold, and 884,594 Placement Agent Warrants were issued, or warrants for that number of shares equal to 8.5% of the number of shares of common stock issued as part of the units, but not the shares underlying the Warrants. In connection with the third closing, fees paid to referral sources in cash totaled \$25,500, or 10% of the aggregate amount paid for the units sold, and 1,212,553 Placement Agent Warrants were issued, or warrants for that number of shares equal to 10% of the number of shares of common stock issued as part of the units, but not the shares underlying the Warrants. Placement Agent Warrants are exercisable until September 30, 2020 at the Per Unit Price. The Placement Agent Warrants have cashless exercise provisions. One of the placement agents that received Placement Agent Warrants is Aurora. Both Arnold S. Lippa and Jeff E. Margolis, officers and directors of the Company, have indirect ownership interests in Aurora through interests held in its members, and Jeff E. Margolis is also an officer of Aurora. As a result, both Arnold S. Lippa and Jeff E. Margolis, or entities in which they have interests, will receive a portion of the Placement Agent Warrants awarded in this private placement.

In addition to the above described placement agent fees, brokerage commissions, and similar payments that were made in the form of cash and warrants to qualified referral sources, the Company also paid \$10,164 in cash to other professionals for services related to the three closings.

The shares of common stock and warrants were offered and sold without registration under the Securities Act in reliance on the exemptions provided by Section 4(a)(2) of the Securities Act as provided in Rule 506(b) of Regulation D promulgated thereunder. None of the shares of common stock issued as part of the units, the warrants, the common stock issuable upon exercise of the warrants, the Placement Agent Warrants or the shares of common stock issuable upon exercise of the Placement Agent Warrants have been registered under the Securities Act or any other applicable securities laws, and unless so registered, may not be offered or sold in the United States except pursuant to an exemption from the registration requirements of the Securities Act.

On January 8, 2016, the Company initiated a new equity private placement, consisting of units of common stock and warrants, up to an aggregate of \$2,500,000, with each unit consisting of (i) one share of common stock, and (ii) one warrant to purchase two additional shares of common stock. During the three months ended March 31, 2016, the

Company entered into purchase agreements with five accredited and three non-accredited, non-affiliated investors, pursuant to which an aggregate of 8,775,250 shares of common stock and an aggregate of 17,550,500 warrants were sold, generating gross proceeds of \$194,635.

The unit price in the private placement closings was \$0.02218. The warrants are exercisable at \$0.0244, for each share of common stock to be acquired, and expire on February 28, 2021. The warrants have cashless exercise provisions and contain certain “blocker” provisions limiting the percentage of shares of the Company’s common stock that the purchaser can beneficially own upon conversion to not more than 4.99% of the issued and outstanding shares immediately after giving effect to the warrant exercise.

In the case of an acquisition in which the Company is not the surviving entity, the holder of the warrant would receive from any surviving entity or successor to the Company, in exchange for the warrant, a new warrant from the surviving entity or successor to the Company, substantially in the form of the existing warrant and with an exercise price adjusted to reflect the nearest equivalent exercise price of common stock (or other applicable equity interest) of the surviving entity that would reflect the economic value of the warrant, but in the surviving entity.

No registration rights were granted to the purchasers in the private placement with respect to (i) the shares of common stock issued as part of the units, (ii) the warrants, or (iii) the shares of common stock issuable upon exercise of the warrants.

No placement agent fees, brokerage commissions, finder's fees or similar payments were made in the form of cash or warrants to qualified referral sources in connection with the sale of the shares of common stock and warrants. The Company paid \$3,429 in cash to other professionals for services related to the seven closings.

See Note 5 for information with respect to the issuance of common stock in connection with the settlement of debt obligations.

Information with respect to the issuance of common stock upon the exercise of common stock purchase warrants issued to placement agents in connection with the Series G Private Placement of the Series G 1.5% Convertible Preferred Stock is provided above at "Series G 1.5% Convertible Preferred Stock."

Common Stock Warrants

Information with respect to the issuance and exercise of common stock purchase warrants with respect to placement agents in connection with the Series G Private Placement of the Series G 1.5% Convertible Preferred Stock is provided above at "Series G 1.5% Convertible Preferred Stock." Information with respect to the issuance and exercise of common stock purchase warrants in connection with the 10% Convertible Note Payable and Warrant Purchase Agreement is provided at Note 4.

A summary of warrant activity for the three months ended March 31, 2016 is presented below.

	Number of Shares	Weighted Average Exercise Price	Weighted Average Remaining Contractual Life (in Years)
Warrants outstanding at December 31, 2015	156,743,609	\$0.02185	
Issued	23,530,819	0.02267	
Exercised	-	-	

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Expired	-	-	
Warrants outstanding at March 31, 2016	180,274,428	\$0.02196	3.81
Warrants exercisable at December 31, 2015	156,743,609	\$0.02185	
Warrants exercisable at March 31, 2016	180,274,428	\$0.02196	3.81

The exercise prices of common stock warrants outstanding and exercisable are as follows at March 31, 2016:

Exercise Price	Warrants Outstanding (Shares)	Warrants Exercisable (Shares)	Expiration Date
\$0.00396	13,325,514	13,325,514	April 17, 2019
\$0.01570	3,350,319	3,350,319	January 29, 2019
\$0.20000	2,630,000	2,630,000	February 4, 2019
\$0.02103	117,957,268	117,957,268	September 30, 2020
\$0.02440	17,550,500	17,550,500	February 28, 2021
\$0.03500	25,460,827	25,460,827	September 15, 2016
	180,274,428	180,274,428	

Based on a fair market value of \$0.0227 per share on March 31, 2016, the intrinsic value of exercisable in-the-money common stock warrants was \$477,262 as of March 31, 2016.

A summary of warrant activity for the three months ended March 31, 2015 is presented below.

	Number of Shares	Weighted Average Exercise Price	Weighted Average Remaining Contractual Life (in Years)
Warrants outstanding at December 31, 2014	25,686,096	\$0.01744	
Issued	6,419,998	0.03500	
Exercised	-	-	
Expired	-	-	
Warrants outstanding at March 31, 2015	32,106,094	\$0.02095	2.08
Warrants exercisable at December 31, 2014	25,686,096	\$0.01744	
Warrants exercisable at March 31, 2015	32,106,094	\$0.02095	2.08

The exercise prices of common stock warrants outstanding and exercisable are as follows at March 31, 2015:

Exercise Price	Warrants Outstanding (Shares)	Warrants Exercisable (Shares)	Expiration Date
\$0.00396	14,531,953	14,531,953	April 17, 2019
\$0.03500	17,574,141	17,574,141	September 15, 2016
	32,106,094	32,106,094	

Based on a fair market value of \$0.0491 per share on March 31, 2015, the intrinsic value of exercisable in-the-money common stock warrants was \$903,768 as of March 31, 2015.

Stock Options

In connection with the initial closing of the Series G Private Placement completed on March 18, 2014, the stockholders of the Company holding a majority of the votes to be cast on the issue approved the adoption of the Company's 2014 Equity, Equity-Linked and Equity Derivative Incentive Plan (the "2014 Plan"), which had been previously adopted by the Board of Directors of the Company, subject to stockholder approval. The Plan permits the grant of options and restricted stock with respect to up to 105,633,002 shares of common stock, in addition to stock appreciation rights and phantom stock, to directors, officers, employees, consultants and other service providers of the Company.

On June 30, 2015, the Board of Directors adopted the 2015 Stock and Stock Option Plan (the “2015 Plan”). The 2015 Plan provides for, among other things, the issuance of either or any combination of restricted shares of common stock and non-qualified stock options to purchase up to 150,000,000 shares of the Company’s common stock for periods up to ten years to management, members of the Board of Directors, consultants and advisors. The Company does not intend to present the 2015 Plan to stockholders for approval. On August 18, 2015, the Board of Directors increased the number of shares that may be issued under the 2015 Plan to 250,000,000 shares of the Company’s common stock. On March 31, 2016, the Board of Directors further increased the number of shares that may be issued under the 2015 Plan to 500,000,000 shares of the Company’s common stock.

On June 30, 2015, the Board of Directors of the Company awarded stock options to purchase a total of 55,000,000 shares of common stock, consisting of options for 15,000,000 shares to each of the Company’s then three executive officers, Dr. Arnold S. Lippa, Jeff E. Margolis and Robert N. Weingarten, and options for 2,000,000 shares to each of five other individuals who are members of management, the Company’s Scientific Advisory Board, or independent members of the Board of Directors. The stock options were awarded as partial compensation for those individuals through December 31, 2015. The stock options vested 50% on June 30, 2015 (at issuance), 25% on September 30, 2015 and 25% on December 31, 2015, and will expire on June 30, 2022. The exercise price of the stock options was established on the grant date at \$0.025 per share, as compared to the closing market price of the Company’s common stock on such date of \$0.0175 per share, reflecting an exercise price premium of \$0.0075 per share or 42.9%. These awards were made under the Company’s 2015 Plan. The aggregate grant date fair value of these stock options calculated pursuant to the Black-Scholes option-pricing model was \$946,000.

On August 18, 2015, the Company entered into an employment agreement with Dr. James S. Manuso to be its new President and Chief Executive Officer. In connection therewith, and in addition to other provisions, the Board of Directors of the Company awarded Dr. Manuso stock options to purchase a total of 85,081,300 shares of common stock, of which options for 80,000,000 shares were granted pursuant to the Company's 2015 Plan and options for 5,081,300 shares were granted pursuant to the Company's 2014 Plan. The stock options vested 50% on August 18, 2015 (at issuance), 25% on February 18, 2016, and will vest 25% on August 18, 2016, and will expire on August 18, 2025. The exercise price of the stock options was established on the grant date at \$0.0197 per share, which is equal to the simple average of the most recent four full trading weeks, weekly Volume Weighted Average Prices ("VWAPs") of the Company's common stock price immediately preceding the date of grant as reported by OTC IQ, as compared to the closing market price of the Company's common stock on August 18, 2015 of \$0.0216 per share. The aggregate grant date fair value of these stock options calculated pursuant to the Black-Scholes option-pricing model was \$1,786,707. During the three months ended March 31, 2016, the Company recorded a charge to operations of \$222,727, with respect to these stock options. See Note 8 for additional information with respect to other provisions of the employment agreement.

On August 18, 2015, the Company also entered into employment agreements with Dr. Arnold S. Lippa, its new Chief Scientific Officer, Robert N. Weingarten, its Vice President and Chief Financial Officer, and Jeff E. Margolis, its Vice President, Treasurer and Secretary. In connection therewith, and in addition to other provisions, the Board of Directors of the Company awarded to each of those officers stock options to purchase a total of 10,000,000 shares of common stock pursuant to the Company's 2015 Plan. The stock options vested 25% on December 31, 2015, 25% on March 31, 2016, and will vest 25% on June 30, 2016 and 25% on September 30, 2016, and will expire on August 18, 2022. The exercise price of the stock options was established on the grant date at \$0.0197 per share, which is equal to the simple average of the most recent four full trading weeks, weekly VWAPs of the Company's common stock price immediately preceding the date of grant as reported by OTC IQ, as compared to the closing market price of the Company's common stock on August 18, 2015 of \$0.0216 per share. The aggregate grant date fair value of these stock options calculated pursuant to the Black-Scholes option-pricing model was \$609,000. During the three months ended March 31, 2016, the Company recorded a charge to operations of \$135,831, with respect to these stock options. See Note 8 for additional information with respect to other provisions of the employment agreements.

Additionally, on August 18, 2015, the Board of Directors of the Company awarded stock options for 3,000,000 shares of common stock to each of seven other individuals who are members of management, the Company's Scientific Advisory Board, independent members of the Board of Directors, or outside service providers pursuant to the Company's 2015 Plan, representing stock options for a total of 21,000,000 shares of common stock. The stock options vested 25% on December 31, 2015, 25% on March 31, 2016, and will vest 25% on June 30, 2016 and 25% on September 30, 2016, and will expire on August 18, 2020 as to stock options for 9,000,000 shares of common stock and August 18, 2022 as to stock options for 12,000,000 shares of common stock. The exercise price of the stock options was established on the grant date at \$0.0197 per share, which is equal to the simple average of the most recent four full trading weeks, weekly VWAPs of the Company's common stock price immediately preceding the date of grant as reported by OTC IQ, as compared to the closing market price of the Company's common stock on August 18, 2015 of \$0.0216 per share. The aggregate grant date fair value of these stock options calculated pursuant to the Black-Scholes option-pricing model was \$430,800. During the three months ended March 31, 2016, the Company recorded a charge to operations of \$110,702, with respect to these stock options.

On December 11, 2015, the Company entered into a consulting agreement for investor relations services, which provided for the payment of a fee for such services through the granting of non-qualified stock options to purchase a total of 2,857,143 shares of common stock pursuant to the Company's 2015 Plan. The stock options will vest in equal installments on the last day of each month during the term of the consulting agreement, ranging from December 11, 2015 through March 31, 2016, and will expire on December 11, 2020. The exercise price of the stock options was established on the grant date at \$0.021 per share, which was the closing market price of the Company's common stock on the date of grant. The aggregate grant date fair value of these stock options calculated pursuant to the Black-Scholes option-pricing model was \$58,286. During the three months ended March 31, 2016, the Company recorded a charge to operations of \$50,286, with respect to these stock options.

On March 31, 2016, the Board of Directors of the Company awarded stock options for a total of 170,000,000 shares of common stock in various quantities to twelve individuals who are members of management, the Company's Scientific Advisory Board, independent members of the Board of Directors, or outside service providers pursuant to the Company's 2015 Plan. The stock options vested 25% on March 31, 2016, and will vest 25% on June 30, 2016, 25% on September 30, 2016 and 25% on December 31, 2016, and will expire on March 31, 2021. The exercise price of the stock options was established on the grant date at \$0.0227 per share, which was the closing market price of the Company's common stock on such date. The aggregate grant date fair value of these stock options, as calculated pursuant to the Black-Scholes option-pricing model, was \$3,774,000. During the three months ended March 31, 2016, the Company recorded a charge to operations of \$951,825 with respect to these stock options.

See Note 5 for information with respect to the issuance of common stock options in connection with the settlement of debt obligations.

Information with respect to common stock awards issued to officers and directors as compensation is provided above under "Common Stock."

A summary of stock option activity for the three months ended March 31, 2016 is presented below.

	Number of Shares	Weighted Average Exercise Price	Weighted Average Remaining Contractual Life (in Years)
Options outstanding at December 31, 2015	251,823,581	\$ 0.0241	
Granted	170,000,000	0.0227	
Expired	-	-	
Forfeited	-	-	
Options outstanding at March 31, 2016	421,823,581	\$ 0.0235	6.07
Options exercisable at December 31, 2015	168,890,074	\$ 0.0262	
Options exercisable at March 31, 2016	247,928,256	\$ 0.0247	5.46

Total deferred compensation expense for the outstanding value of 173,895,324 unvested stock options was approximately \$3,637,000 at March 31, 2016, which is being recognized subsequent to March 31, 2016 over a weighted-average period of approximately 8.2 months.

The exercise prices of common stock options outstanding and exercisable were as follows at March 31, 2016:

Exercise Price	Options Outstanding (Shares)	Options Exercisable (Shares)	Expiration Date
\$0.0175	29,148,028	29,148,028	June 30, 2020
\$0.0197	9,000,000	4,500,000	August 18, 2020
\$0.0197	42,000,000	21,000,000	August 18, 2022
\$0.0197	85,081,300	63,810,975	August 18, 2025
\$0.0210	2,857,143	2,857,143	December 11, 2020

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\$0.0227	170,000,000	42,875,000	March 31, 2021
\$0.0250	55,000,000	55,000,000	June 30, 2022
\$0.0400	2,400,000	2,400,000	March 13, 2019
\$0.0400	1,250,000	1,250,000	April 14, 2019
\$0.0430	1,100,000	1,100,000	March 14, 2024
\$0.0476	2,520,442	2,520,442	April 8, 2020
\$0.0490	800,000	800,000	February 28, 2024
\$0.0500	15,000,000	15,000,000	July 17, 2019
\$0.0512	500,000	500,000	January 29, 2020
\$0.0600	3,083,334	3,083,334	July 17, 2022
\$0.0600	2,083,334	2,083,334	August 10, 2022
	421,823,581	247,928,256	

Based on a fair market value of \$0.0227 per share on March 31, 2016, the intrinsic value of exercisable in-the-money common stock options was \$424,360 as of March 31, 2016.

A summary of stock option activity for the three months ended March 31, 2015 is presented below.

	Number of Shares	Weighted Average Exercise Price	Weighted Average Remaining Contractual Life (in Years)
Options outstanding at December 31, 2014	25,716,668	\$ 0.0500	
Granted	500,000	0.0510	
Expired	-	-	
Forfeited	-	-	
Options outstanding at March 31, 2015	26,216,668	\$ 0.0500	5.20
Options exercisable at December 31, 2014	25,716,668	\$ 0.0500	
Options exercisable at March 31, 2015	26,216,668	\$ 0.0500	5.20

The exercise prices of common stock options outstanding and exercisable were as follows at March 31, 2015:

Exercise Price	Options Outstanding (Shares)	Options Exercisable (Shares)	Expiration Date
\$0.0400	2,400,000	2,400,000	March 13, 2019
\$0.0400	1,250,000	1,250,000	April 14, 2019
\$0.0430	1,100,000	1,100,000	March 14, 2024
\$0.0490	800,000	800,000	February 28, 2024
\$0.0500	15,000,000	15,000,000	July 17, 2019
\$0.0510	500,000	500,000	January 29, 2020
\$0.0600	3,083,334	3,083,334	July 17, 2022
\$0.0600	2,083,334	2,083,334	August 10, 2022
	26,216,668	26,216,668	

Based on a fair market value of \$0.0491 per share on March 31, 2015, the intrinsic value of exercisable in-the-money common stock options was \$40,005 as of March 31, 2015.

For the three months ended March 31, 2016 and 2015, stock-based compensation costs included in the condensed consolidated statements of operations consisted of general and administrative expenses of \$1,030,831 and \$0, respectively, and research and development expenses of \$440,540 and \$72,000, respectively.

Pier Contingent Stock Consideration

In connection with the merger transaction with Pier effective August 10, 2012, RespireRx issued 58,417,893 newly issued shares of its common stock with an aggregate fair value of \$3,271,402 (\$0.056 per share), based upon the closing price of RespireRx's common stock on August 10, 2012. The shares of common stock were distributed to stockholders, convertible note holders, warrant holders, option holders, and certain employees and vendors of Pier in satisfaction of their interests and claims. The common stock issued by RespireRx represented approximately 41% of the 144,041,556 common shares outstanding immediately following the closing of the transaction.

Pursuant to the terms of the transaction, RespireRx agreed to issue additional contingent consideration, consisting of up to 18,314,077 shares of common stock, to Pier's former security holders and certain other creditors and service providers (the "Pier Stock Recipients") that received RespireRx's common stock as part of the Pier transaction if certain of RespireRx's stock options and warrants outstanding immediately prior to the closing of the merger were subsequently exercised. In the event that such contingent shares were issued, the ownership percentage of the Pier Stock Recipients, following their receipt of such additional shares, could not exceed their ownership percentage as of the initial transaction date.

The stock options and warrants outstanding at June 30, 2012 were all out-of-the-money on August 10, 2012. During late July and early August 2012, shortly before completion of the merger, the Company issued options to officers and directors at that time to purchase a total of 7,361,668 shares of common stock exercisable for ten years at \$0.06 per share. By October 1, 2012, these options, as well as the options and warrants outstanding at June 30, 2012, were also out-of-the-money and continued to be out-of-the-money through March 31, 2016.

There were no stock options or warrants exercised subsequent to August 10, 2012 that triggered additional contingent consideration, and the only remaining stock options outstanding that could still