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

FORM 10-Q

(Mark One)

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

For the quarterly period ended September 30, 2014

OR

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

For the transition period from _____ to _____

Commission file number: 001-35994

Heat Biologics, Inc.

(Exact name of registrant as specified in its charter)

Delaware

*(State or other jurisdiction of
Incorporation or Organization)*

26-2844103

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

801 Capitola Drive

Durham, NC

(Address of principal executive offices)

27713

(Zip Code)

(919) 240-7133

(Registrant's telephone number, including area code)

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes 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 (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes No

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

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

(Do not check if 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 November 4, 2014 there were 6,481,752 shares of Common Stock, \$0.0002 par value per share, outstanding.

HEAT BIOLOGICS, INC.

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FORWARD-LOOKING STATEMENTS

This Quarterly Report on Form 10-Q contains forward-looking statements that involve substantial risks and uncertainties. All statements, other than statements of historical facts, contained in this Quarterly Report on Form 10-Q, including statements regarding our strategy, future operations, future financial position, future revenues, projected costs, prospects, plans and objectives of management, are forward looking statements. The words "anticipate," "believe," "estimate," "expect," "intend," "may," "plan," "predict," "project," "target," "potential," "will," "would," "could," "should," "continue" and similar expressions are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words.

Forward-looking statements are not guarantees of future performance and our actual results could differ materially from the results discussed in the forward-looking statements. Factors that could cause actual results to differ materially from those in the forward-looking statements include, but are not limited to, our ability to raise additional capital to support our clinical development program and other operations, our ability to develop products of commercial value and to identify, discover and obtain rights to additional potential product candidates, our ability to protect and maintain our intellectual property and the ability of our licensors to obtain and maintain patent protection for the technology or products that we license from them, the outcome of research and development activities, our reliance on third-parties, competitive developments, the effect of current and future legislation and regulation and regulatory actions, as well as other risks described more fully in this Quarterly Report on Form 10-Q.

As a result of these and other factors, we may not actually achieve the plans, intentions or expectations disclosed in our forward-looking statements, and you should not place undue reliance on our forward-looking statements. Our forward-looking statements do not reflect the potential impact of any future acquisitions, mergers, dispositions, joint ventures or investments we may make. We do not assume any obligation to update any forward-looking statements, whether as a result of new information, future events or otherwise, except as required by law.

PART I—FINANCIAL INFORMATION

ITEM 1. FINANCIAL STATEMENTS

HEAT BIOLOGICS, INC.
Condensed Consolidated Balance Sheets

	September 30, 2014 (unaudited)	December 31, 2013
Assets		
Current Assets		
Cash and cash equivalents	\$ 3,281,984	\$ 4,566,992
Short-term investments	12,115,118	17,297,165
Related party receivable	43,392	24,946
Prepaid expenses and other current assets	<u>648,363</u>	<u>1,066,638</u>
Total Current Assets	<u>16,088,857</u>	<u>22,955,741</u>
Property and Equipment, net	<u>464,348</u>	<u>53,753</u>
Other Assets		
Restricted cash	101,252	1,252
Deferred financing costs	62,405	—
Deposits	<u>19,798</u>	<u>9,320</u>
Total Other Assets	<u>183,455</u>	<u>10,572</u>
Total Assets	<u>\$ 16,736,660</u>	<u>\$ 23,020,066</u>
Liabilities and Stockholders' Equity		
Current Liabilities		
Accounts payable	\$ 680,478	\$ 651,917
Accrued expenses and other payables	446,162	503,050
Accrued interest	—	25,364
Current portion of long term debt	<u>130,041</u>	<u>—</u>
Total Current Liabilities	<u>1,256,681</u>	<u>1,180,331</u>
Long Term Liabilities		
Long-term debt, net	1,058,475	—
Stock warrants liability	<u>—</u>	<u>122,590</u>
Total Liabilities	<u>2,315,156</u>	<u>1,302,921</u>
Stockholders' Equity		
Common stock, \$.0002 par value; 50,000,000 shares authorized, 6,481,752 and 6,375,426 shares issued and outstanding at September 30, 2014 (unaudited) and December 31, 2013, respectively	979	961
Additional paid in capital	35,550,524	34,337,591
Accumulated deficit	<u>(20,524,547)</u>	<u>(12,346,630)</u>
Total Stockholders' Equity— Less Non-Controlling Interest	<u>15,026,956</u>	<u>21,991,922</u>
Non-Controlling Interest	<u>(605,452)</u>	<u>(274,777)</u>
Total Stockholders' Equity	<u>14,421,504</u>	<u>21,717,145</u>
Total Liabilities and Stockholders' Equity	<u>\$ 16,736,660</u>	<u>\$ 23,020,066</u>

See Notes to Condensed Consolidated Financial Statements

HEAT BIOLOGICS, INC.
Condensed Consolidated Statements of Operations
(unaudited)

	Three Months Ended, September 30		Nine months Ended September 30,	
	2014	2013	2014	2013
Operating expenses:				
Research and development	\$ 1,025,442	\$ 992,360	\$ 2,425,404	\$ 2,121,628
Clinical and regulatory	1,258,566	230,924	3,218,137	747,915
General and administrative	832,101	737,540	2,844,883	1,443,856
Total operating expenses	<u>3,116,109</u>	<u>1,960,824</u>	<u>8,488,424</u>	<u>4,313,399</u>
Loss from operations	<u>(3,116,109)</u>	<u>(1,960,824)</u>	<u>(8,488,424)</u>	<u>(4,313,399)</u>
Interest income	9,740	500	27,261	502
Other expense	(12,762)	(28,229)	(39,291)	(78,191)
Interest expense	<u>(8,138)</u>	<u>(40,639)</u>	<u>(8,138)</u>	<u>(100,780)</u>
Total non-operating expense	<u>(11,160)</u>	<u>(68,368)</u>	<u>(20,168)</u>	<u>(178,469)</u>
Net loss	(3,127,269)	(2,029,192)	(8,508,592)	(4,491,868)
Net loss - non-controlling interest	(126,865)	(61,750)	(330,675)	(139,796)
Beneficial conversion charge	—	—	—	(2,300,000)
Preferred stock dividend	—	(361,668)	—	(361,668)
Net loss attributable to common stockholders	<u>\$ (3,000,404)</u>	<u>\$ (2,329,110)</u>	<u>\$ (8,177,917)</u>	<u>\$ (7,013,740)</u>
Net loss per share attributable to common stockholders—basic and diluted	<u>\$ (0.46)</u>	<u>\$ (0.48)</u>	<u>\$ (1.27)</u>	<u>\$ (2.45)</u>
Weighted-average number of common shares used in net loss per share attributable to common stockholders—basic and diluted	<u>6,469,272</u>	<u>4,835,582</u>	<u>6,445,129</u>	<u>2,863,310</u>

See Notes to Condensed Consolidated Financial Statements

HEAT BIOLOGICS INC.
Condensed Consolidated Statement of Stockholders' Equity
(unaudited)

	Preferred Stock			Common Stock	APIC	Accumulated Deficit	Non-Controlling Interest	Total Stockholders' Equity
	Series 1	Series A	Series B					
Balance at December 31, 2013	\$ —	\$ —	\$ —	\$ 961	\$ 34,337,591	\$ (12,346,630)	\$ (274,777)	\$ 21,717,145
Exercise of stock options, 55,837 shares	—	—	—	12	37,707	—	—	37,719
Cashless exercise of options, 10,442 shares	—	—	—	—	—	—	—	—
Cashless exercise of warrants, 40,047 shares	—	—	—	6	452,868	—	—	452,874
Stock based compensation	—	—	—	—	722,358	—	—	722,358
Net loss	—	—	—	—	—	(8,177,917)	(330,675)	(8,508,592)
Balance at September 30, 2014	\$ —	\$ —	\$ —	\$ 979	\$ 35,550,524	\$ (20,524,547)	\$ (605,452)	\$ 14,421,504

See Notes to Condensed Consolidated Financial Statements

HEAT BIOLOGICS, INC.
Condensed Consolidated Statements of Cash Flows
(unaudited)

	Nine months Ended September 30,	
	2014	2013
Cash Flows from Operating Activities		
Net loss	\$ (8,508,592)	\$ (4,491,868)
Adjustments to reconcile net loss to net cash used in operating activities:		
Depreciation	41,850	2,877
Amortization of debt issuance costs	13,848	28,229
Amortization of bond premium	137,897	—
Re-measurement of fair value of stock warrants liability	7,263	122,202
Stock-based compensation	722,358	377,388
(Decrease) increase in cash arising from changes in assets and liabilities:		
Related party receivable	(18,446)	(10,813)
Prepaid expenses and other current assets	418,275	(742,029)
Restricted cash	(100,000)	24,672
Deposits	(10,478)	—
Accounts payable	28,561	(112,943)
Accrued expenses and other payables	(56,888)	28,071
Accrued interest	(25,364)	8,387
Net Cash Used in Operating Activities	<u>(7,349,716)</u>	<u>(4,765,827)</u>
Cash Flows from Investing Activities		
Proceeds from maturities of short-term investments	13,827,773	—
Purchases of short-term investments	(8,783,623)	—
Purchase of property and equipment	(452,444)	(5,194)
Net Cash Provided by (Used in) Investing Activities	<u>4,591,706</u>	<u>(5,194)</u>
Cash Flows from Financing Activities		
Proceeds from initial public offering, net of underwriters discounts	—	25,110,000
Proceeds from long term debt	1,435,283	—
Payments on notes payable	—	(725,000)
Payments on convertible notes payable	—	(197,099)
Issuance of common stock	—	47,957
Proceeds from the exercise of stock options	37,719	540
Issuance of series B-1 preferred stock	—	5,050,090
Stock issuance costs	—	(942,052)
Net Cash Provided by Financing Activities	<u>1,473,002</u>	<u>28,344,436</u>
Net (Decrease) Increase in Cash and Cash Equivalents	(1,285,008)	23,573,415
Cash and Cash Equivalents – Beginning of Period	4,566,992	5,030
Cash and Cash Equivalents – End of Period	<u>\$ 3,281,984</u>	<u>\$ 23,578,445</u>
Supplemental Disclosure for Cash Flow Information		
Interest paid	<u>\$ 8,138</u>	<u>\$ 51,575</u>
Supplemental Schedule of Noncash Investing and Financing Activities		
Beneficial conversion charge	<u>\$ —</u>	<u>\$ 2,300,000</u>
Conversion of convertible notes payable into accounts payable	<u>\$ —</u>	<u>\$ 197,099</u>
Preferred stock dividend	<u>\$ —</u>	<u>\$ 361,668</u>
Non-cash conversion of preferred stock into common stock	<u>\$ —</u>	<u>\$ 386</u>
Cashless exercise of stock warrants	<u>\$ 452,874</u>	<u>\$ —</u>

HEAT BIOLOGICS, INC.
NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS
(Unaudited)

1. Summary of Significant Accounting Policies

Basis of presentation and Principles of Consolidation

The accompanying unaudited condensed consolidated financial statements included in this Quarterly Report on Form 10-Q have been prepared in conformity with accounting principles generally accepted in the United States of America ("U.S. GAAP") for interim financial reporting. However, certain information or footnote disclosures normally included in complete financial statements prepared in accordance with U.S. GAAP have been condensed, or omitted, pursuant to the rules and regulations of the Securities and Exchange Commission (the "SEC"). In the opinion of the Company's management, the unaudited statements in this Quarterly Report on Form 10-Q include all normal and recurring adjustments necessary for the fair statement of the results for the interim periods presented. The results for the three and nine months ended September 30, 2014 are not necessarily indicative of the results that may be expected for any other interim period or for the fiscal year ending December 31, 2014.

The condensed consolidated financial statements as of and for the three and nine months ended September 30, 2014 and 2013 included in this Quarterly Report on Form 10-Q are unaudited. The balance sheet as of December 31, 2013 is derived from the audited financial statements as of that date. The accompanying statements should be read in conjunction with the audited financial statements and related notes, together with Management's Discussion and Analysis of Financial Condition and Results of Operations, contained in the Company's Annual Report on Form 10-K for the year ended December 31, 2013 filed with the SEC on March 31, 2014 (the "2013 Annual Report").

The accompanying condensed consolidated financial statements as of and for the three and nine months ended September 30, 2014 and 2013 include the accounts of Heat Biologics, Inc. and its subsidiaries, Heat Biologics I, Inc. ("Heat I"), Heat Biologics III, Inc. ("Heat III"), Heat Biologics IV, Inc. ("Heat IV"), Heat Biologics GmbH and Heat Biologics Australia Pty Ltd. All significant intercompany accounts and transactions have been eliminated in consolidation. At December 31, 2013 and September 30, 2014, Heat held a 92.5% controlling interest in Heat I and accounts for its less than 100% interest in the unaudited condensed consolidated financial statements in accordance with U.S. GAAP. Accordingly, the Company presents non-controlling interests as a component of stockholders' equity on its condensed consolidated balance sheets, condensed statement of stockholders equity, and reports non-controlling interest net loss under the heading "Net loss – non-controlling interest" in the condensed consolidated statements of operations.

In August 2014, the FASB issued ASU 2014-15, *Presentation of Financial Statements—Going Concern (Subtopic 205-40): Disclosure of Uncertainties about an Entity's Ability to Continue as a Going Concern* ("ASU 2014-15"). The amendments in ASU 2014-15 are intended to define management's responsibility to evaluate whether there is substantial doubt about an organization's ability to continue as a going concern and to provide related footnote disclosures. Under GAAP, financial statements are prepared under the presumption that the reporting organization will continue to operate as a going concern, except in limited circumstances. The going concern basis of accounting is critical to financial reporting because it establishes the fundamental basis for measuring and classifying assets and liabilities. Currently, GAAP lacks guidance about management's responsibility to evaluate whether there is substantial doubt about the organization's ability to continue as a going concern or to provide related footnote disclosures. This ASU provides guidance to an organization's management, with principles and definitions that are intended to reduce diversity in the timing and content of disclosures that are commonly provided by organizations today in the financial statement footnotes. This update is effective for annual periods ending after December 15, 2016, and interim periods within annual periods beginning after December 15, 2016. Early application is permitted for annual or interim reporting periods for which the financial statements have not previously been issued. We do not expect this ASU to have an impact on its consolidated financial statements.

HEAT BIOLOGICS, INC.
NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS
(Unaudited)

2. Fair Value of Financial Instruments

The carrying amount of certain of the Company's financial instruments, including cash and cash equivalents, prepaid expenses and other current assets, deposits, accounts payable and accrued expenses and other payables approximate fair value due to their short maturities.

As a basis for determining the fair value of certain of the Company's financial instruments, the Company utilizes a three-tier value hierarchy, which prioritizes the inputs used in measuring fair value as follows:

Level I – Observable inputs such as quoted prices in active markets for identical assets or liabilities.

Level II – Observable inputs, other than Level I prices, such as quoted prices for similar assets or liabilities, quoted prices in markets that are not active or other inputs that are observable or can be corroborated by observable market data for substantially the full term of the assets or liabilities.

Level III – Unobservable inputs that are supported by little or no market activity and that are significant to the fair value of the assets or liabilities.

This hierarchy requires the Company to use observable market data, when available, and to minimize the use of unobservable inputs when determining fair value. The Company's financial instruments that are measured at fair value on a recurring basis consist only of the stock warrants liability at September 30, 2014 and December 31, 2013.

In 2012 and 2013, the Company issued warrants exercisable for a total of 20,549 shares of common stock. The freestanding warrants for the Company's common stock were recognized as a liability and recorded at fair value in all periods prior to exercise. Upon the cashless exercise of these warrants in January and February 2014, the sum of the fair value of the exercised warrants were credited to additional paid in capital and the liability was eliminated.

In connection with the Square 1 Bank Loan ("Loan"), in August 2014, the Company issued Square 1 Bank a warrant, exercisable for 52,695 shares of the Company's common stock at an exercise price of \$4.27. In accordance with ASC 480-10, *Distinguishing Liabilities from Equity*, the freestanding warrant for the Company's common stock was recognized as a liability and recorded at fair value in all periods prior to exercise. The warrant liability was re-measured to fair value prior to reclassification to additional paid in capital upon its exercise. The initial fair value of the warrant of \$323,021 was recorded as a liability and a discount to notes payable and is being amortized to interest expense over the term of the note. In September 2014, the warrants were exercised via a cashless exercise into 17,664 shares of the Company's common stock.

The fair value of the warrant was calculated using the Black-Scholes option pricing model with the following assumptions:

Dividend yield	0.0%
Expected volatility	100%
Risk-free interest rate	2.23%
Expected lives (years)	10

The change in the fair value of the Level III stock warrants is summarized below:

Fair value of stock warrant liability at December 31, 2013	\$ 122,590
Fair value of stock warrant liability at issuance	323,021
Change in fair value during the period	7,263
Cashless exercises during the period	<u>(452,874)</u>
Fair value of stock warrant liability at September 30, 2014	<u>\$ —</u>

There were no assets or liabilities measured at fair value on a recurring basis as of September 30, 2014.

HEAT BIOLOGICS, INC.
NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS
(Unaudited)

2. Fair Value of Financial Instruments (Continued)

The following are the major categories of assets and liabilities measured at fair value on a recurring basis as of December 31, 2013:

Description	December 31, 2013			Total December 31, 2013
	Identical Assets (Level 1)	Observable Inputs (Level 2)	Unobservable Inputs (Level 3)	
Liabilities measured at fair value				
Stock warrants liability	\$ —	\$ —	\$ (122,590)	\$ (122,590)
Total Liabilities measured at fair value	\$ —	\$ —	\$ (122,590)	\$ (122,590)

3. Income Tax

Income taxes are accounted for using the asset and liability method. Deferred tax assets and liabilities are recognized for the future tax consequences attributable to temporary differences between the financial statements carrying amounts of assets and liabilities and their respective tax bases, operating loss carryforwards, and tax credit carryforwards. Deferred tax assets and liabilities are measured using enacted tax rates expected to apply to taxable income in the years in which those temporary differences are expected to be recovered or settled. The effect on deferred tax assets and liabilities of a change in tax rates is recognized in income in the period that includes the enactment date.

In accordance with Financial Accounting Standards Board Accounting Standards Codification 740, *Accounting for Income Taxes*, the Company reflects in the accompanying unaudited condensed consolidated financial statements the benefit of positions taken in a previously filed tax return or expected to be taken in a future tax return only when it is considered 'more-likely-than-not' that the position taken will be sustained by a taxing authority. As of September 30, 2014 and December 31, 2013, the Company had no unrecognized income tax benefits and correspondingly there is no impact on the Company's effective income tax rate associated with these items. The Company's policy for recording interest and penalties relating to uncertain income tax positions is to record them as a component of income tax expense in the accompanying statements of income. As of September 30, 2014 and December 31, 2013, the Company had no such accruals.

4. Investments

Investments - Investments in certain securities may be classified into three categories:

- *Held-to-maturity* - Debt securities that the Company has the positive intent and ability to hold to maturity are reported at amortized cost.
- *Trading securities* - Debt and equity securities that are bought and held principally for the purpose of selling in the near term are reported at fair value with unrealized gains and losses included in earnings.
- *Available-for-sale* - Debt and equity securities not classified as either securities held-to-maturity or trading securities are reported at fair value with unrealized gains or losses excluded from earnings and reported as a separate component of stockholders' equity.

The Company reassesses the appropriateness of the classification of its investments at the end of each reporting period. The Company has determined that its debt securities should be classified as held-to-maturity as of September 30, 2014 and December 31, 2013. This classification was based upon management's determination that it has the positive intent and ability to hold the securities until their maturity dates, as the underlying cash invested in these securities is not required for current operations. Investments consist of short-term FDIC insured certificates of deposit, commercial paper rated A1/P1 or above and corporate notes and bonds rated A and above carried at amortized cost using the effective interest method.

The following table summarizes information about short term investments at September 30, 2014:

	Amortized Cost	Gross Unrealized (Losses)	Estimated Fair Value
Certificates of deposit, commercial paper, corporate notes and bonds	\$ 12,115,118	\$ (3,704)	\$ 12,111,414

HEAT BIOLOGICS, INC.
NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS
(Unaudited)

4. Investments (Continued)

As of September 30, 2014, the estimated fair value of the investments was less than the amortized cost. Because management has the positive intention and ability to hold the investments until their maturity dates, these unrealized losses were not recorded in the accompanying unaudited condensed consolidated financial statements.

The maturities of held-to-maturity investments at September 30, 2014 were as follows:

	<u>Less than 1 Year</u>	<u>Total</u>
Certificates of deposit, commercial paper, corporate notes and bonds	\$ 12,115,118	\$ 12,115,118

5. Property and Equipment

Property and equipment are recorded at cost and depreciated using the straight-line method, over estimated useful lives, ranging generally from five to seven years. Expenditures for maintenance and repairs are charged to expense as incurred.

Property and equipment consisted of the following:

	<u>September 30, 2014</u>	<u>December 31, 2013</u>
Furniture and fixtures	\$ 47,682	\$ 10,780
Computers	20,652	13,175
Lab equipment	<u>447,423</u>	<u>39,357</u>
Total	515,757	63,312
Accumulated depreciation	<u>(51,409)</u>	<u>(9,559)</u>
Property and equipment, net	<u>\$ 464,348</u>	<u>\$ 53,753</u>

Depreciation expense was \$22,952 and \$1,229 for the three months ended September 30, 2014 and 2013, respectively. Depreciation expense was \$41,850 and \$2,877 for nine months ended September 30, 2014 and 2013, respectively.

6. Accrued Expenses and other payables

Accrued expenses consist of the following:

	<u>September 30, 2014</u>	<u>December 31, 2013</u>
Accrued compensation and related benefits	\$ 190,987	\$ 356,588
Accrued patent fees	35,000	40,000
Accrued rent	41,050	—
Accrued professional fees	179,125	106,462
	<u>\$ 446,162</u>	<u>\$ 503,050</u>

HEAT BIOLOGICS, INC.
NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS
(Unaudited)

7. Net Loss Per Share

Basic and diluted net loss per common share is calculated by dividing net loss applicable to common stockholders by the weighted-average number of common shares outstanding during the period, without consideration for common stock equivalents. The Company's potentially dilutive shares, which include convertible preferred stock, outstanding stock options, warrants and unvested restricted stock are considered to be common stock equivalents and are only included in the calculation of diluted net loss per share when their effect is dilutive. The following table reconciles net loss to net loss applicable to common shareholders:

	Three Months Ended, September 30		Nine months Ended September 30,	
	2014	2013	2014	2013
Net loss	\$ (3,127,269)	\$ (2,029,192)	\$ (8,508,592)	\$ (4,491,868)
Net loss: Non-controlling interest	(126,865)	(61,750)	(330,675)	(139,796)
Beneficial conversion charge	—	—	—	(2,300,000)
Preferred Stock Dividend	—	(361,668)	—	(361,668)
Net loss applicable to common stockholders	<u>\$ (3,000,404)</u>	<u>\$ (2,329,110)</u>	<u>\$ (8,177,917)</u>	<u>\$ (7,013,740)</u>
Weighted-average number of common shares used in net loss per share attributable to common stockholders—basic and diluted	6,469,272	4,835,582	6,445,129	2,863,310
Net loss per share attributable to common stockholders—basic and diluted	<u>\$ (0.46)</u>	<u>\$ (0.48)</u>	<u>\$ (1.27)</u>	<u>\$ (2.45)</u>

The following potentially dilutive securities were excluded from the calculation of diluted net loss per share due to their anti-dilutive effect:

	For the Nine months Ended September 30,	
	2014	2013
Outstanding stock options	836,961	575,762
Common stock warrants	17,392	53,159
Underwriters warrants	125,000	—

The preferred stock warrants converted into warrants to purchase common stock upon the completion of the initial public offering in July 2013. In January and February 2014, warrants exercisable for 20,549 shares were exercised in cashless transactions that resulted in the issuance of 8,065 shares of common stock.

The remaining common stock warrants are held by third parties in connection with prior private placements of our equity securities. In February 2014, 15,218 warrants were exercised in cashless transactions that resulted in the issuance of 14,318 shares of common stock.

In connection with our public offering we issued common stock warrants to the underwriters for 125,000 shares of common stock issuable at \$12.50 per share upon exercise. The warrants have a ten-year life and expire on July 29, 2023.

HEAT BIOLOGICS, INC.
NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS
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7. Net Loss Per Share (Continued)

Reverse Stock Split

In May 2013, the Company's board of directors and stockholders approved a 1-for-2.3 reverse stock split of the Company's common stock. The reverse stock split became effective on May 29, 2013. All share and per share amounts in the accompanying condensed consolidated financial statements have been retroactively adjusted for all periods presented to give effect to the reverse stock split, including reclassifying an amount equal to the increase in par value to additional paid-in capital.

8. Stock-Based Compensation

2014 Stock Incentive Plan

In June 2014, the shareholders approved the 2014 Stock Option Plan of Heat Biologics, Inc. (the "2014 Plan"), under which the Company is authorized to grant 500,000 awards in the form of both incentive and non-qualified stock options, restricted stock, stock appreciation rights and other stock based awards on terms established by the Compensation Committee of the Board of Directors which has been appointed by the Board of Directors to administer the 2014 Plan. Persons eligible to participate in the 2014 Plan include employees, directors, and consultants. Stock options granted under the 2014 Plan generally have terms of 10 years and have various vesting schedules. As of September 30, 2014, 263,415 awards had been granted under the 2014 Plan, of which 244,249 are outstanding, leaving 255,751 shares of common stock available for grant under the plan.

The 2014 Plan supplements the Company's 2009 Stock Incentive Plan (the "2009 Plan") under which the Company is authorized to grant 869,565 awards in the form of options, restricted stock, restricted stock units and other stock based awards. As of September 30, 2014, 960,176 awards had been granted under the 2009 Plan, of which 592,712 are outstanding, leaving 5,620 shares of common stock available for grant under the plan.

As of September 30, 2014, awards for 1,223,591 shares of common stock have been granted under the 2009 and 2014 Plans ("the Plans") and there were 261,371 shares of common stock remaining available for grant under the Plans.

Restricted Stock

As of September 30, 2014, all restricted stock has vested and accordingly all stock-based compensation expense related to vested restricted stock has been recognized.

Stock Options

The following is a summary of the stock option activity for the nine months ended September 30, 2014:

	Shares	Weighted Average Exercise Price
Outstanding, December 31, 2013	633,482	\$ 3.36
Granted	315,379	\$ 6.45
Exercised	(67,794)	\$ 0.69
Forfeited	(44,106)	\$ 3.19
Outstanding, September 30, 2014	836,961	\$ 4.75

The weighted average grant-date fair value of stock options granted during the nine months ended September 30, 2014 was \$4.42. The fair value of each stock option is estimated on the date of grant using the Black-Scholes-Merton option pricing model with the following assumptions for stock options granted during the nine months ended September 30, 2014:

Dividend yield	0.0%
Expected volatility	108.2%
Risk-free interest rate	2.15%
Expected lives (years)	5.9

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8. Stock-Based Compensation (Continued)

The risk-free interest rate is based on U.S. Treasury interest rates at the time of the grant whose term is consistent with the expected life of the stock options. The Company used an average historical stock price volatility based on an analysis of reported data for a peer group of comparable companies that have issued stock options with substantially similar terms, as the Company did not have sufficient trading history for its common stock. Expected term represents the period that the Company's stock option grants are expected to be outstanding. The Company elected to utilize the "simplified" method to value stock option grants. Under this approach, the weighted-average expected life is presumed to be the average of the vesting term and the contractual term of the option.

Expected dividend yield was considered to be 0% in the option pricing formula since the Company has not paid any dividends and has no plans to do so in the future. The forfeiture rate was considered to be none insofar as the historical experience of the Company is very limited. As required by ASC 718, the Company will adjust the estimated forfeiture rate based upon actual experience.

The Company recognized stock-based compensation expense of \$224,586 and \$26,793 for the three months ended September 30, 2014 and 2013, respectively and \$722,358 and \$377,388 for the nine months ended September 30, 2014 and 2013, respectively for the Company's stock option awards.

The following table summarizes information about stock options outstanding at September 30, 2014:

Options Outstanding			Options Exercisable			Options Vested or Expected to Vest		
Balance as of 9/30/2014	Weighted Average Remaining Contractual Life (Years)	Weighted Average Exercise Price	Balance as of 9/30/2014	Weighted Average Remaining Contractual Life (Years)	Weighted Average Exercise Price	Balance as of 9/30/2014	Weighted Average Remaining Contractual Life (Years)	Weighted Average Exercise Price
836,961	7.6	\$4.75	440,615	5.9	\$2.29	440,615	5.9	\$2.29

As of September 30, 2014, the unrecognized stock-based compensation expense related to unvested stock options was \$2,964,247, which is expected to be recognized over a weighted average period of approximately 14.6 months.

9. Financing

Preferred Stock

In March 2013, the Company sold an aggregate of 1,891,419 shares of the Company's Series B-1 Preferred Stock for gross proceeds of approximately \$5.0 million in the Series B Preferred Stock private placement. All shares of the Series B Preferred Stock, together with accrued dividends, automatically converted into shares of the Company's common stock upon the consummation of the Company's initial public offering on July 29, 2013. In addition, the investors in the Series B-1 Preferred Stock were issued shares of the Company's common stock having a value based upon the initial public offering price of \$361,668 and the Company's obligation to issue, and the investors, obligation to purchase, Series B-2 Preferred Stock and warrants upon fulfillment of certain conditions specified in the Company's stock purchase agreement dated as of March 25, 2013 entered into in connection with such private placement (the "Stock Purchase Agreement") terminated.

HEAT BIOLOGICS, INC.
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9. Financing (Continued)

Initial Public Offering

On July 29, 2013, the Company sold 2,500,000 shares of common stock at a public offering price of \$10.00 per share upon the closing of the Company's initial public offering ("IPO") with gross proceeds of \$25 million and net proceeds of \$22.4 million. On August 15, 2013, the Company sold an additional 100,000 shares of common stock at a public offering price of \$10.00 per share pursuant to the partial exercise of the over-allotment option granted to the underwriters resulting in additional gross proceeds to the Company of \$1,000,000 and additional net proceeds of \$930,000. On September 6, 2013, the Company sold an additional 100,000 shares of common stock at a public offering price of \$10.00 per share pursuant to the partial exercise of the over-allotment option granted to the underwriters resulting in additional gross proceeds to the Company of \$1,000,000 and additional net proceeds of \$930,000. The total gross proceeds raised from the offering and over-allotment option were \$27 million, before underwriting discounts, commissions and other offering expenses payable by the Company. The total net proceeds from the offering were approximately \$24.3 million. Upon the closing of the IPO, all shares of the Company's then-outstanding preferred stock automatically converted into an aggregate of 1,696,683 shares of common stock. In addition, upon the closing of the IPO, the Company issued an additional 36,167 shares of common stock to the Series B Preferred Stockholders as a Preferred Stock dividend. At that time, the Company's obligation to issue, and the Series B Preferred Stockholders' obligation to purchase Series B-2 Preferred Stock under the Stock Purchase Agreement terminated.

10. Debt

Square 1 Bank Loan

In August 2014, the Company entered into a secured loan with Square 1 Bank ("Loan"). The Loan provides the Company with a term loan in the aggregate principal amount not to exceed \$7,500,000 to be used to supplement working capital. The Loan is available to the Company in four tranches: \$1,500,000 was made available to the Company on August 22, 2014 ("Tranche 1 Loan"), \$1,500,000 became available to the Company upon its enrollment of its first patient in its the Phase 2 clinical trial for HS-110 ("Tranche 2 Loan"), \$2,250,000 will be available to the Company upon Square 1 Bank's receipt or before June 30, 2015 of evidence satisfactory to it of the initiation and continuation of the ImPACT cell line for a third indication ("Tranche 3 Loan") and \$2,250,000 will be available to the Company upon Square 1 Bank's receipt or before October 31, 2015 of evidence satisfactory to it of the full enrollment of our Phase 1/2 clinical trial for HS -410 ("Tranche 4 Loan"). As of September 30, 2014, the Company had drawn down \$1,500,000 under the Tranche 1 Loan. On October 27, 2014, the Company met the milestone required to draw down the Tranche 2 Loan but has not yet requested a draw down.

The Loan accrues interest monthly at an interest rate of 3.05% plus prime or 6.30 % per annum whichever is greater. The Tranche 1 Loan is payable as interest-only until June 30, 2015 since the Company has already achieved the Tranche 2 milestone and thereafter interest is payable in monthly installments of principal plus accrued interest until February 22, 2018. The Tranche 2 Loan is available prior to December 31, 2014 and is payable as interest-only prior to June 30, 2015 (unless the Company achieves the Tranche 3 milestone at which time the interest only period will be extended until October 31, 2015) and thereafter is payable in monthly installments of principal plus accrued interest until February 22, 2018. The Tranche 3 Loan is available until June 30, 2015 and is payable as interest-only prior to October 31, 2015 and thereafter is payable in monthly installments of principal plus accrued interest until February 22, 2018. The Tranche 4 Loan is available until October 31, 2015 and is payable in monthly installments of principal plus accrued interest until February 22, 2018. As of September 30, 2014, the Company has made \$0 in principal payments and \$8,138 in interest payments on the outstanding loan. The agreement with Square 1 Bank sets forth various affirmative and negative covenants. The failure of the Company to comply with the covenants constitutes a default under the Loan. The covenants include the Company having at least two ongoing clinical trials at all times, the attainment of the funding conditions set forth in the agreement and covenants regarding financial reporting, limits on the Company's cash burn, incurrence of indebtedness, permitted investments, encumbrances, distributions, investments and mergers and acquisitions. The Loan is also secured by a security interest in all of the Company's personal property, excluding its intellectual property.

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10. Debt (Continued)

In connection with the Loan, in August 2014, the Company issued Square 1 Bank a warrant, exercisable for 52,695 shares of the Company's common stock at an exercise price of \$4.27. In accordance with ASC 480-10, *Distinguishing Liabilities from Equity*, the freestanding warrant for the Company's common stock was recognized as a liability and recorded at fair value in all periods prior to exercise. The warrant liability was re-measured to fair value prior to reclassification to additional paid in capital upon its exercise. The initial fair value of the warrant of \$323,021 was recorded as a liability and a discount to notes payable and is being amortized to interest expense over the term of the Loan. In September 2014, the warrants were exercised via a cashless exercise into 17,664 shares of the Company's common stock. The fair value of the warrants is shown as a debt discount and is netted against the outstanding loan balance in the condensed consolidated balance sheets.

11. Subsequent Events

On October 24, 2014, the Company's shelf registration statement on Form S-3, that was filed on October 10, 2014 with the Securities and Exchange Commission (the "SEC"), was declared effective by the SEC. The registration statement contains two prospectuses (i) a base prospectus which covers the offer, issuance and sale of up to a maximum aggregate offering price of \$50 million of the Company's common stock, warrants or units and (ii) a sales agreement prospectus covering the offer, issuance and sale by the Company of up to a maximum aggregate offering price of \$10 million of the Company's common stock that may be issued and sold under a Controlled Equity OfferingSM Sales Agreement (ATM) that the Company entered into with Cantor Fitzgerald & Co. The Company entered into an ATM with Cantor Fitzgerald & Co., pursuant to which the Company may sell shares of its common stock through Cantor Fitzgerald & Co., as sales agent, for aggregate proceeds of up to \$10 million. Shares of common stock sold under the ATM are to be sold at market prices prevailing at the time of sale or prices related to such prevailing market prices. The Company will pay compensation to Cantor Fitzgerald & Co. at a fixed commission of 3% of the gross sales price per share. The Company has not sold any shares under the ATM.

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

You should read the following discussion and analysis of our financial condition and results of operations together with our financial statements and related notes appearing elsewhere in this quarterly report. The following discussion contains forward-looking statements that involve risks and uncertainties. Our actual results and the timing of certain events could differ materially from those anticipated in these forward-looking statements as a result of certain factors, including those discussed below and elsewhere in this quarterly report. This discussion should be read in conjunction with the accompanying unaudited condensed consolidated financial statements and the audited condensed consolidated financial statements and notes thereto included in our Annual Report on Form 10-K for the year ended December 31, 2013 filed with the Securities and Exchange Commission on March 31, 2014 (the "2013 Annual Report"). This discussion may contain forward-looking statements that involve risks and uncertainties. See "Forward-Looking Statements."

OVERVIEW

We are a development stage biopharmaceutical company engaged in the development of novel allogeneic, "off-the-shelf" cellular therapeutic vaccines to combat a wide range of cancers and infectious diseases. Our proprietary *ImPACT*[™] Immune Pan Antigen Cytotoxic Therapy is being designed to deliver live, genetically-modified, irradiated human cells which are reprogrammed to "pump out" a broad spectrum of cancer-associated antigens together with a potent immune adjuvant called "gp96" to educate and activate a cancer patient's immune system to recognize and kill cancerous cells. We intend for our *ImPACT* cells to secrete an antigen-adjuvant complex that generates anti-cancer immune responses in patients by mobilizing and activating cytotoxic "killer" T cells that target multiple cancer antigens, thus harnessing a patient's own immune system to fight cancer.

Unlike autologous or "personalized" therapeutic vaccine approaches which require extraction and processing of cancer or blood from each individual patient, our *ImPACT* therapeutic vaccine uses a master cell line containing a host of known and unknown tumor associated antigens to mass-produce a single vaccine product applicable to all patients with a particular cancer type. We believe our off-the-shelf, allogeneic immunotherapy offers logistical, manufacturing and cost benefits compared to autologous patient-specific approaches.

Our most advanced product candidates are HS-410 and HS-110.

We have initiated dosing in the Phase 2 portion of our Phase 1/2 bladder cancer trial with HS-410. HS-410 is a biologic product which consists of a bladder cancer cell line which has been genetically modified using our *ImPACT* technology platform to secrete a wide range of bladder cancer antigens bound to a gp96 adjuvant and is designed to activate a T-cell mediated pan-antigen immune response against the patient's bladder cancer. Our Phase 1/2 trial to examine safety, tolerability, immune response and preliminary clinical activity of HS-410 in patients with high risk, superficial bladder cancer who have completed surgical resection and 3-6 weekly intravesical bacillus Calmette-Guérin (BCG) immunotherapy installations. We anticipate including approximately 12-18 clinical sites with an enrollment period of 18-24 months. Patient recruitment began in December 2013. In September 2014, we completed the required enrollment of the Phase 1 portion of the study to advance to the Phase 2 study and in October 2014 we initiated dosing of our first patient in the Phase 2 study. We anticipate that dosing will be completed in approximately the third quarter of 2015.

We have commenced a Phase 2 trial in non-small cell lung cancer (NSCLC) patients with our therapeutic vaccine candidate HS-110 (viagenpumatu cel-L). The Phase 2 trial will evaluate HS-110 in combination with low dose cyclophosphamide versus chemotherapy alone in third- and fourth-line NSCLC patients. The trial will enroll 123 patients at approximately 20-30 investigative centers over 24 months. Recruitment for the trial began in the third quarter of 2014 and we anticipate completion of dosing by the second quarter of 2016. We intend to complete an interim analysis for immune response in the first half of 2015 after 14 patients have been treated for nine weeks with HS-110 in combination with low dose cyclophosphamide. HS-110 is a biologic product which consists of a lung cancer cell line that has been genetically modified using our *ImPACT* technology platform to secrete a wide range of lung cancer associated antigens bound to a gp96 adjuvant and is designed to activate a T-cell mediated pan-antigen immune response against the patient's cancer.

We commenced active operations in the second half of 2008. Our operations to date have been primarily focused on organizing and staffing our company, business planning, raising capital, acquiring and developing our technology, identifying potential product candidates, manufacturing vaccine for our clinical trials and undertaking preclinical and clinical studies of our most advanced product candidates. To date, we have not generated any revenues and have financed our operations with net proceeds from the private placement of our preferred stock and our initial public offering in which we received gross proceeds of \$27 million and bank funding commitments. In addition, in August 2014, we entered into a secured loan agreement with Square 1 Bank (the "Loan") that, subject to meeting certain milestones, provides us with a term loan in the aggregate principal amount not to exceed \$7,500,000 to be used to supplement working capital. To date, we have received \$1,500,000 under the Loan and have met the second milestone under the Loan for an additional \$1,500,000 which we have until December 31, 2014 to request. As of September 30, 2014, we had an accumulated deficit of \$20,524,547. We had net losses of \$3,127,269 and \$2,029,192 for the three months ended September 30, 2014 and 2013 respectively, and net losses of \$8,508,592 and \$4,491,868 for the nine months ended September 30, 2014 and 2013, respectively. We expect to incur significant expenses and increasing operating losses for the foreseeable future. We expect our expenses to increase in connection with our ongoing activities, particularly as we continue research and development and conduct clinical trials of, and seek marketing approval for, our product candidates. In addition, if we obtain marketing approval for any of our product candidates, we expect to incur significant commercialization expenses related to product sales, marketing, manufacturing and distribution. Furthermore, we expect to incur additional costs associated with operating as a public company. Accordingly, we will need to obtain substantial additional funding in connection with our continuing operations. Adequate additional financing may not be available to us on acceptable terms, or at all. If we are unable to raise capital when needed or on attractive terms, we would be forced to delay, reduce or eliminate our research and development programs or any future commercialization efforts. We expect our existing cash and proceeds from the Loan will enable us to fund our current operating plan and capital expenditure requirements for at least 12 months. This is based on our current estimates, and we could use our available capital resources sooner than we currently expect. We will need to generate significant revenues to achieve profitability, and we may never do so.

CRITICAL ACCOUNTING POLICIES AND SIGNIFICANT JUDGMENTS AND ESTIMATES

We believe that several accounting policies are important to understanding our historical and future performance. We refer to these policies as "critical" because these specific areas generally require us to make judgments and estimates about matters that are uncertain at the time we make the estimate, and different estimates—which also would have been reasonable—could have been used, which would have resulted in different financial results.

Our management's discussion and analysis of financial condition and results of operations is based on our unaudited condensed consolidated financial statements, which have been prepared in accordance with U.S. GAAP. The preparation of our unaudited condensed consolidated financial statements requires us to make estimates and judgments that affect the reported amounts of assets, liabilities, revenue and expenses and related disclosure of contingent assets and liabilities. On an ongoing basis, we evaluate our estimates based on historical experience and make various assumptions, which management believes to be reasonable under the circumstances, which form the basis for judgments about the carrying values of assets and liabilities that are not readily apparent from other sources. Actual results may differ from these estimates under different assumptions or conditions.

The notes to our audited condensed consolidated financial statements, which are included in the 2013 Annual Report, contain a summary of our significant accounting policies. We consider the following accounting policies critical to the understanding of the results of our operations:

- Revenue recognition;
- Stock-based compensation;
- Stock warrants liability; and
- Beneficial conversion feature.

In August 2014, the FASB issued ASU 2014-15, *Presentation of Financial Statements—Going Concern (Subtopic 205-40): Disclosure of Uncertainties about an Entity's Ability to Continue as a Going Concern* (“ASU 2014-15”). The amendments in ASU 2014-15 are intended to define management’s responsibility to evaluate whether there is substantial doubt about an organization’s ability to continue as a going concern and to provide related footnote disclosures. Under GAAP, financial statements are prepared under the presumption that the reporting organization will continue to operate as a going concern, except in limited circumstances. The going concern basis of accounting is critical to financial reporting because it establishes the fundamental basis for measuring and classifying assets and liabilities. Currently, GAAP lacks guidance about management’s responsibility to evaluate whether there is substantial doubt about the organization’s ability to continue as a going concern or to provide related footnote disclosures. This ASU provides guidance to an organization’s management, with principles and definitions that are intended to reduce diversity in the timing and content of disclosures that are commonly provided by organizations today in the financial statement footnotes. This update is effective for annual periods ending after December 15, 2016, and interim periods within annual periods beginning after December 15, 2016. Early application is permitted for annual or interim reporting periods for which the financial statements have not previously been issued. We do not expect this ASU to have an impact on its consolidated financial statements.

RESULTS OF OPERATIONS

Comparison of the Three Months ended September 30, 2014 and 2013

Research and development expense. Research and development expense for the three months ended September 30, 2014 (“2014 Quarter”) was \$1,025,442 compared to \$992,360 for the three months ended September 30, 2013 (“2013 Quarter”). The \$33,082 increase from the 2013 Quarter to the 2014 Quarter is primarily attributable to an increase in compensation expense for our research and development staff of \$110,280, of which \$25,876 was non-cash, stock-based compensation. We incurred \$78,054 in research and development expenses in the 2014 Quarter establishing the lab facility in Durham, North Carolina, as well as \$20,372 in depreciation related to the lab. Offsetting these increases were decreases of \$6,032 in patent and license costs in the 2014 Quarter compared to the 2013 Quarter as well as decreases of \$122,486 in pre-manufacturing costs as we begin manufacturing clinical trial batches. Additionally, consulting costs decreased by \$49,516 in the 2014 Quarter as compared to the 2013 Quarter. The remaining \$2,410 change is attributable to changes in various other expenses.

Clinical and regulatory expense. Clinical and regulatory expense for the 2014 Quarter was \$1,258,566 compared to \$230,924 for the 2013 Quarter. The \$1,027,642 increase from the 2013 Quarter to the 2014 Quarter is attributable to increases in patient enrollment and clinical trial execution costs of \$828,870, as well as increased manufacturing and drug handling costs of \$45,355 related to the production of vaccines for our clinical trials. Personnel cost, including travel, increased by \$116,416 of which \$41,640 was non-cash stock-based compensation. We also incurred \$38,965 in the 2014 Quarter related to facilities costs. Additionally, travel expenses increased by \$30,309 from the 2013 Quarter to the 2014 Quarter. These increases are offset by a decrease of \$33,987 in consulting costs as we used employees rather than external consultants. The remaining \$1,714 increase is attributable to changes in various other expenses.

General and administrative expense. General and administrative expense for the 2014 Quarter was \$832,101 compared to \$737,540 for the 2013 Quarter. The \$94,561 increase from the 2013 Quarter to the 2014 Quarter is attributable to an increase of \$169,294 related to public company expenses which include professional services such as accountants, attorneys and insurance due to the increased risk management requirements of a public company. Additionally, net personnel costs increased by \$22,966 from the 2013 Quarter to the 2014 Quarter, after taking into account a reduction in non-cash, stock-based compensation of \$36,140. The increase in personnel costs is related to hiring.

Franchise tax expense also increased by \$30,179 from the 2013 Quarter to the 2014 Quarter. Additionally, travel costs increased by \$20,338 from the 2013 Quarter to the 2014 Quarter. These increases are offset by a decrease of \$39,280 in consulting costs as the Company used employees rather than external consultants. Additionally, facilities costs related to general and administrative expenses decreased by \$99,023 in the 2014 Quarter as compared to the 2013 Quarter as these costs were allocated to other departments. The remaining \$9,913 change is attributable to general and administrative costs such as office expenses, fees, and other miscellaneous administrative costs.

Interest income. Interest income was \$9,740 for the 2014 Quarter as compared to \$500 for the 2013 Quarter. The increase is due to the Company’s increased cash balance that has been invested in various short-term financial instruments that generated interest income during 2014.

Interest expense. Interest expense was \$8,138 for the 2014 Quarter compared to \$40,639 for the 2013 Quarter. In the 2013 Quarter, the Company had outstanding debt accruing interest for the majority of the quarter, while in the 2014 Quarter the Company only had outstanding debt from the end of August through the end of the quarter.

Comparison of the Nine months ended September 30, 2014 and 2013

Research and development expense. Research and development expense for the nine months ended September 30, 2014 (“2014 Period”) was \$2,425,404 compared to \$2,121,628 for the nine months ended September 30, 2013 (“2013 Period”). The \$303,776 increase from the 2013 Period to the 2014 Period is attributable to an increase of \$347,301 in patent and license costs in a continuing effort to maintain and expand our patent portfolio offset by a decrease of \$543,663 in pre-manufacturing costs as the Company begins manufacturing clinical trial batches. The Company incurred additional compensation expense for Company research and development staff of \$254,704 in the 2014 Period as compared to the 2013 Period, of which \$34,715 was non-cash stock-based compensation. The Company incurred \$225,683 in research and development expenses in the 2014 Period establishing the lab facility in Durham, North Carolina. These increases are offset by a decrease of \$23,169 in consulting costs as the Company used employees rather than external consultants. The remaining \$42,920 change is attributable to changes in various other expenses.

Clinical and regulatory expense. Clinical and regulatory expense for the 2014 Period was \$3,218,137 compared to \$747,915 for the 2013 Period. The \$2,470,222 increase from the 2013 Period to the 2014 Period is attributable to increases in patient enrollment and clinical trial execution costs of \$2,098,599, including increased manufacturing and drug handling costs related to the production of vaccines for our clinical trials. Personnel cost increased by \$333,994 of which \$110,871 was non-cash stock-based compensation. These increases were offset by a decrease in the use of outside consultants of \$15,238. The remaining \$52,867 change is attributable to increases in travel, recruiting and allocated expenses.

General and administrative expense. General and administrative expense for the 2014 Period was \$2,844,883 compared to \$1,443,856 for the 2013 Period. The \$1,401,027 increase from the 2013 Period to the 2014 Period is attributable to an increase of \$858,105 related to public company expenses which include professional services such as accountants and attorneys and insurance due to the increased risk management requirements of a public company. Additionally, personnel costs increased by \$464,361 from the 2013 Period to the 2014 Period, of which \$236,511 was non-cash, stock-based compensation. The remainder of the increase in personnel costs is related to hiring. Travel expenses decreased by \$14,427 from the 2013 Period to the 2014 Period but consulting costs increased by 73,593 during the same time. The remaining \$19,395 change is attributable to costs such as office expenses, fees, and other miscellaneous administrative costs.

Interest income. Interest income was \$27,261 for the 2014 Period as compared to \$502 for the 2013 Period. The increase is due to the Company’s increased cash balance that has been invested in various short-term financial instruments that generated interest income during 2014.

Interest expense. Interest expense was \$8,138 for the 2014 Period compared to \$100,780 for the 2013 Period. In the 2013 Period, the Company had outstanding debt accruing interest for the period, while in 2014 Period the Company only had outstanding debt from the end of August through the end of the quarter.

Balance Sheet at September 30, 2014 and December 31, 2013

Prepaid expenses. Prepaid expenses were \$648,363 as of September 30, 2014 compared to \$1,066,638 as of December 31, 2013. The decrease of \$418,275 was primarily due to a reduction in the amount paid in advance for clinical trial related costs. Additionally, prepaid amounts continued to be amortized to expense on a monthly basis such as directors and officers and other types of insurance, software licenses and other fees.

Accounts Payable. Accounts payable was \$680,478 as of September 30, 2014 compared to \$651,917 as of December 31, 2013. The increase of \$28,561 was primarily related to increases in overall expense.

Accrued Expenses. Accrued expenses were \$446,162 as of September 30, 2014 compared to \$503,050 as of December 31, 2013. The decrease of \$56,888 was primarily related to 2013 employee bonuses that were accrued at December 31, 2013 but subsequently paid in February 2014.

LIQUIDITY AND CAPITAL RESOURCES

Sources of liquidity

To date, we have not generated any revenues. Since our inception in June 2008, we have financed our operations principally through grant awards, private placements and our initial public offering, which we closed in July 2013 and bank commitments. The total gross proceeds from the offering and two subsequent over-allotment options was \$27 million, before underwriting discounts, commissions and other offering expenses payable by the Company. The net proceeds to the Company were approximately \$24.3 million. We believe that the proceeds we received from our initial public offering will provide us with sufficient working capital for at least 12 months. Thereafter, we expect to require additional funds in the future to continue to conduct our clinical trials. As of September 30, 2014, we had \$15,397,102 in cash and cash equivalents and short-term investments.

Our cash and cash equivalents are currently held in an interest bearing checking and money market account and short-term investment grade securities.

Cash flows

Operating activities. Cash used by operating activities in all periods resulted primarily from our net losses adjusted for non-cash charges and changes in the components of working capital. The significant increase in cash used in operating activities for the 2014 Period compared to the 2013 Period is due to an increase in clinical and regulatory expenses as we began clinical trials. Additionally, there was an increase in other operational costs primarily associated with increases in headcount as well as costs associated with being a public company.

Investing activities. Cash provided by investing activities in the 2013 Period resulted primarily from the purchase of property and equipment, while in the 2014 Period cash provided by investing activities included purchase of property and equipment as well as the sale and purchase of various short-term investments.

Financing activities. Cash provided by financing activities during the 2014 Period was \$1,473,002 related to the Loan and the exercise of stock options.

Funding requirements

We expect our existing cash and short-term investments will enable us to fund our current operating plan and capital expenditure requirements for at least the next 12 months. Thereafter, we intend to meet our financing needs through the issuance of equity or debt and/or funding from partnerships or collaborations.

OFF-BALANCE SHEET ARRANGEMENTS

We did not have during the periods presented, and we do not currently have, any off-balance sheet arrangements, as defined under Securities and Exchange Commission rules.

ITEM 3. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK.

Not applicable to smaller reporting companies.

ITEM 4. CONTROLS AND PROCEDURES.

Evaluation of Disclosure Controls and Procedures

Our management, with the participation of our Chief Executive Officer and Chief Financial Officer, evaluated the effectiveness of our disclosure controls and procedures as of September 30, 2014. The term "disclosure controls and procedures," as defined in Rules 13a-15(e) and 15d-15(e) under the Exchange Act, means controls and other procedures of a company that are designed to ensure that information required to be disclosed by a company in the reports that it files or submits under the Exchange Act is recorded, processed, summarized and reported, within the time periods specified in the SEC's rules and forms. Disclosure controls and procedures include, without limitation, controls and procedures designed to ensure that information required to be disclosed by a company in the reports that it files or submits under the Exchange Act is accumulated and communicated to the company's management, including its principal executive and principal financial officers, or persons performing similar functions, as appropriate to allow timely decisions regarding required disclosure. Management recognizes that any controls and procedures, no matter how well designed and operated, can provide only reasonable assurance of achieving their objectives and management necessarily applies its judgment in evaluating the cost-benefit relationship of possible controls and procedures. Based on the evaluation of our disclosure controls and procedures as of September 30, 2014, our Chief Executive Officer and Chief Financial Officer concluded that, as of such date, our disclosure controls and procedures were not effective at the reasonable assurance level due to the material weaknesses discussed in ITEM 1A. Risk Factors.

Changes in Internal Control over Financial Reporting

We continue to make progress towards remediating the material weaknesses in our internal control over financial reporting. The actions taken include, amongst others, (i) installing a new accounting system which allows us to implement appropriate procedures and processes necessary for adequate controls (ii) implementing month end and period end closing procedures and review processes for key aspects of our financial reporting process, (iii) designing, documenting and implementing policies and procedures; and (iv) instituting formal procedures for accounting for options.

No other changes in our internal control over financial reporting occurred during the quarter ended September 30, 2014 that have materially affected, or are reasonably likely to materially affect, the Company's internal control over financial reporting.

PART II—OTHER INFORMATION

ITEM 1. LEGAL PROCEEDINGS.

None.

ITEM 1A. RISK FACTORS.

Investors should carefully consider the risks described below before deciding whether to invest in our securities. If any of the following risks actually occur, our business, financial condition or results of operations could be adversely affected. In such case, the trading price of our common stock could decline and you could lose all or part of your investment. Our actual results could differ materially from those anticipated in the forward-looking statements made throughout this Quarterly Report on Form 10-Q as a result of different factors, including the risks we face described below.

Risks Relating to our Company

We have had limited operations to date.

We are a start-up entity and have had limited operations to date. As a start-up entity, we are subject to many of the risks common to such enterprises, including our ability to implement our business plan, market acceptance of our proposed business and products, under-capitalization, cash shortages, limitations with respect to personnel, financing and other resources, competition from better funded and experienced companies, and uncertainty of our ability to generate revenues. There is no assurance that our activities will be successful or will result in any revenues or profit, and the likelihood of our success must be considered in light of the stage of our development. Even if we generate revenue, there can be no assurance that we will be profitable. In addition, no assurance can be given that we will be able to consummate our business strategy and plans, or that financial, technological, market, or other limitations may force us to modify, alter, significantly delay, or significantly impede the implementation of such plans. We have insufficient results for investors to use to identify historical trends. Investors should consider our prospects in light of the risk, expenses and difficulties we will encounter as an early stage company. Our revenue and income potential is unproven and our business model is continually evolving. We are subject to the risks inherent to the operation of a new business enterprise, and cannot assure you that we will be able to successfully address these risks.

We have a limited operating history upon which to evaluate our ability to commercialize our products.

We are a development-stage company and our success is dependent upon our ability to obtain regulatory approval for and commercialize our products and we have not demonstrated an ability to perform the functions necessary for the approval or successful commercialization of any product candidates. The successful commercialization of any product candidates will require us to perform a variety of functions, including:

- continuing to undertake pre-clinical development and successfully executing clinical trials;
- participating in regulatory approval processes;
- formulating and manufacturing products; and
- conducting sales and marketing activities.

While various members of our management and staff have significant experience in conducting cancer trials, the Company, to date, has not successfully completed any clinical trials and has limited experience conducting and enrolling patients in clinical trials. Until recently, our operations have been limited primarily to organizing and staffing the Company, acquiring, developing and securing our proprietary technology and undertaking pre-clinical trials of our product candidates. These operations provide a limited basis for you to assess our ability to commercialize our product candidates and the advisability of investing in our securities.

We currently have no product revenues and may not generate revenue at any time in the near future, if at all.

We currently have no products for sale and we cannot guarantee that we will ever have any drug products approved for sale. We and our product candidates are subject to extensive regulation by the U.S. Food and Drug Administration, or FDA, and comparable regulatory authorities in other countries governing, among other things, research, testing, clinical trials, manufacturing, labeling, promotion, marketing, adverse event reporting and recordkeeping of our product candidates. Until, and unless, we receive approval from the FDA and other regulatory authorities for our product candidates, we cannot commercialize our product candidates and will not have product revenues. For the foreseeable future, we will have to fund all of our operations and capital expenditures from cash on hand, grants, and, potentially, future offerings. We believe we have sufficient cash on hand to fund our current operating plans and capital expenditure requirements for at least 12 months. However, changes may occur that would consume our available capital before that time, including changes in and progress of our development activities, acquisitions of additional candidates and changes in regulation. Moreover, pre-clinical studies and clinical trials may not start or be completed as we forecast and may not achieve the desired results.

We may continue to generate operating losses and experience negative cash flows and it is uncertain whether we will achieve profitability.

For the years ended December 31, 2013 and December 31, 2012, we incurred a net loss of (\$6,609,864) and (\$2,471,147), respectively. For the nine months ended September 30, 2014, we incurred a net loss of (\$8,508,592) and we have an accumulated deficit of (\$20,524,547) through September 30, 2014. We may continue to incur operating losses until such time, if ever, as we are able to achieve sufficient levels of revenue from operations. Our ability to achieve profitability will depend on the market acceptance of our product offerings and our capacity to develop, introduce and sell our products to our targeted markets. There can be no assurance that we will ever generate significant sales or achieve profitability. Accordingly, the extent of future losses and the time required to achieve profitability, if ever, cannot be predicted at this point.

Even if we succeed in developing and commercializing one or more product candidates, we expect to incur substantial losses for the foreseeable future and may never become profitable. We also expect to continue to incur significant operating and capital expenditures and anticipate that our expenses will increase substantially in the foreseeable future as we:

- continue to undertake pre-clinical development and initiate clinical trials for product candidates;
- seek regulatory approvals for product candidates;
- implement additional internal systems and infrastructure; and
- hire additional personnel.

We also expect to experience negative cash flows for the foreseeable future as we fund our operating losses and capital expenditures. As a result, we will need to generate significant revenues or raise additional financing in order to achieve and maintain profitability. We may not be able to generate these revenues or achieve profitability in the future. Our failure to achieve or maintain profitability would likely negatively impact the value of our securities and could prevent us from continuing as a going concern.

If we do not meet the milestones for financing under our secured loans with Square 1 Bank, we may be forced to seek other sources of financing and if we default on our secured loan with Square 1 Bank we could be forced to suspend all operations.

We have entered into loans with Square 1 Bank that are secured by substantially all of our assets, excluding our intellectual property. Our loan agreement with Square 1 Bank sets forth various affirmative and negative covenants that we must comply with, including covenants regarding financial reporting, limits on our cash burn, incurrence of indebtedness and liens and merger and acquisitions. In addition, we are unable to borrow certain amounts under the Square 1 loan until we have achieved certain clinical milestones and we are required to continually run two clinical trials. If we fail to achieve the milestones, we may not have enough funding to complete our clinical trials as currently planned and may be forced to seek other sources of financing. If we fail to comply with these covenants or if we fail to make timely monthly payments under the secured loans when due, Square 1 Bank could declare our loans in default. Additionally, if we do not commercialize a product by the maturity date of the loan, we may be unable to repay the loans to Square 1 Bank. If we default on the loans, Square 1 Bank has the right to seize the collateral secured by the loans, which could result in our licenses reverting back to our licensor and could force us to suspend all operations. In order to comply with the covenants of the loans and to make timely payments to Square 1 Bank under the loans, we may need to raise additional capital, which might not be available to us on favorable terms or at all.

Risks Relating to our Business

If we do not obtain the necessary regulatory approvals in the U.S. and/or other countries we will not be able to sell our product candidates.

We cannot assure you that we will receive the approvals necessary to commercialize any of our product candidates or any product candidates we acquire or develop in the future. We will need FDA approval to commercialize our product candidates in the U.S. and approvals from the FDA-equivalent regulatory authorities in foreign jurisdictions to commercialize our product candidates in those jurisdictions. In order to obtain FDA approval of any product candidate, we must submit to the FDA a Biologics License Application, or BLA, demonstrating that the product candidate is safe, pure and potent, or effective for its intended use. This demonstration requires significant research including pre-clinical studies, as well as clinical trials. Satisfaction of the FDA's regulatory requirements typically takes many years, depends upon the type, complexity and novelty of the product candidate and requires substantial resources for research, development and testing. We cannot predict whether our clinical trials will demonstrate the safety and efficacy of our product candidates or if the results of any clinical trials will be sufficient to advance to the next phase of development or for approval from the FDA. We also cannot predict whether our research and clinical approaches will result in drugs or therapeutics that the FDA considers safe and effective for the proposed indications. The FDA has substantial discretion in the drug approval process. The approval process may be delayed by changes in government regulation, future legislation or administrative action or changes in FDA policy that occur prior to or during our regulatory review. Delays in obtaining regulatory approvals may:

- prevent or delay commercialization of, and our ability to derive product revenues from, our product candidates; and
- diminish any competitive advantages that we may otherwise believe that we hold.

Even if we comply with all FDA requests, the FDA may ultimately reject one or more of our BLAs. We may never obtain regulatory clearance for any of our product candidates. Failure to obtain FDA approval of any of our product candidates will severely undermine our business by leaving us without a saleable product, and therefore without any source of revenues, until another product candidate can be developed. There is no guarantee that we will ever be able to develop or acquire another product candidate.

In addition, the FDA may require us to conduct additional pre-clinical and clinical testing or to perform post-marketing studies, as a condition to granting marketing approval of a product. Regulatory approval of oncology products often requires that patients in clinical trials be followed for long periods to assess their overall survival. The results generated after approval could result in loss of marketing approval, changes in product labeling, and/or new or increased concerns about the side effects or efficacy of a product. The FDA has significant post-market authority, including the explicit authority to require post-market studies and clinical trials, labeling changes based on new safety information, and compliance with FDA-approved risk evaluation and mitigation strategies. The FDA's exercise of its authority has in some cases resulted, and in the future could result, in delays or increased costs during product development, clinical trials and regulatory review, increased costs to comply with additional post-approval regulatory requirements and potential restrictions on sales of approved products.

In foreign jurisdictions, we must also receive approval from the appropriate regulatory authorities before we can commercialize any vaccines. Foreign regulatory approval processes generally include all of the risks associated with the FDA approval procedures described above. There can be no assurance that we will receive the approvals necessary to commercialize our product candidate for sale outside the United States.

Our product candidates are in early stages of development.

Because our product candidates are in early stages of development they will require extensive pre-clinical and clinical testing. Although two of our product candidates have commenced Phase 2 clinical trials, we cannot predict with any certainty if or when we might submit a BLA for regulatory approval for any of our product candidates or whether any such BLA will be accepted for review by the FDA, or whether any BLA will be approved upon review.

Even if our clinical trials are completed as planned, we cannot be certain that their results will support our proposed indications. Success in pre-clinical testing and early clinical trials does not ensure that later clinical trials will be successful, and we cannot be sure that the results of later clinical trials will replicate the results of prior clinical trials and pre-clinical testing. For example, the only clinical study completed to date with one of our product candidates by the inventor of the technology that we license showed evidence of an immune response in late-stage NSCLC patients exposed to HS-110. However, our current Phase 2 clinical trial and future HS-110 trials will use doses and dosing regimens which have previously been tested in only 0 to 3 subjects, and will be conducted in patients with less advanced disease who may have different responses. In addition, immune response is not an acceptable regulatory endpoint for approval, and no actual clinical or tumor responses were observed in that study. Moreover, the HS-110 Phase 1 trial involved a small sample size, was not blinded and was sponsored by an individual who has a significant financial interest in the success of the product candidate. The clinical trial process may fail to demonstrate that our product candidates are safe and effective for their proposed uses. This failure could cause us to abandon a product candidate and may delay development of other product candidates. Any delay in, or termination of, our clinical trials will delay and possibly preclude the filing of any BLAs with the FDA and, ultimately, our ability to commercialize our product candidates and generate product revenues.

Clinical trials are very expensive, time-consuming and difficult to design and implement.

As part of the regulatory process, we must conduct clinical trials for each product candidate to demonstrate safety and efficacy to the satisfaction of the FDA and other regulatory authorities. The number and design of the clinical trials that will be required varies depending upon product candidate, the condition being evaluated and the trial results themselves. Therefore, it is difficult to accurately estimate the cost of the clinical trials. Clinical trials are very expensive and difficult to design and implement, in part because they are subject to rigorous regulatory requirements. The clinical trial process is also time consuming. We estimate that clinical trials of our product candidates will take at least several years to complete. Furthermore, failure can occur at any stage of the trials, and we could encounter problems that cause us to abandon or repeat clinical trials. The commencement and completion of clinical trials may be delayed or prevented by several factors, including:

- unforeseen safety issues;
- failure to determine appropriate dosing;
- greater than anticipated cost of our clinical trials;
- failure to demonstrate effectiveness during clinical trials;
- slower than expected rates of patient recruitment or difficulty obtaining investigators;
- patient drop-out or discontinuation;
- inability to monitor patients adequately during or after treatment;
- third party contractors failing to comply with regulatory requirements or meet their contractual obligations to us in a timely manner;
- insufficient or inadequate supply or quality of product candidates or other necessary materials to conduct our trials;
- potential additional safety monitoring, or other conditions required by FDA or comparable foreign regulatory authorities regarding the scope or design of our clinical trials, or other studies requested by regulatory agencies;
- problems engaging IRBs to oversee trials or in obtaining and maintaining IRB approval of studies;
- imposition of clinical hold or suspension of our clinical trials by regulatory authorities; and
- inability or unwillingness of medical investigators to follow our clinical protocols.

In addition, we or the FDA may suspend or terminate our clinical trials at any time if it appears that we are exposing participants to unacceptable health risks or if the FDA finds deficiencies in our Investigational New Drug, or IND, submissions or the conduct of these trials. Therefore, we cannot predict with any certainty when, if ever, future clinical trials will commence or be completed.

There is uncertainty as to market acceptance of our technology and product candidates.

Even if the FDA approves one or more of our product candidates, the products may not gain broad market acceptance among physicians, healthcare payers, patients, and the medical community. We have conducted our own research into the markets for our product candidates; however we cannot guarantee market acceptance of our product candidates, if approved, and have somewhat limited information on which to estimate our anticipated level of sales. Our product candidates, if approved, will require patients, healthcare providers and doctors to adopt our technology. Our industry is susceptible to rapid technological developments and there can be no assurance that we will be able to match any new technological advances. If we are unable to match the technological changes in the needs of our customers the demand for our products will be reduced. Acceptance and use of any products we market will depend upon a number of factors including:

- perceptions by members of the health care community, including physicians, about the safety and effectiveness of our products;
- limitation on use or warnings required by FDA in our product labeling;
- cost-effectiveness of our products relative to competing products;
- convenience and ease of administration;
- potential advantages of alternative treatment methods;
- availability of reimbursement for our products from government or other healthcare payers; and
- effectiveness of marketing and distribution efforts by us and our licensees and distributors, if any.

Because we expect virtually all of our product revenues for the foreseeable future to be generated from sales of our current product candidates, if approved, the failure of these therapeutics to find market acceptance would substantially harm our business and would adversely affect our revenue.

Our development program depends upon third-party researchers who are outside our control.

We are dependent upon independent investigators and collaborators, such as universities and medical institutions, to conduct our pre-clinical and clinical trials under agreements with us. These collaborators are not our employees and we cannot control the amount or timing of resources that they devote to our programs. These investigators may not assign as great a priority to our programs or pursue them as diligently as we would if we were undertaking such programs ourselves. If outside collaborators fail to devote sufficient time and resources to our development programs, or if their performance is substandard, the approval of our FDA applications, if any, and our introduction of new product candidates, if any, will be delayed if obtained at all. These collaborators may also have relationships with other commercial entities, some of whom may compete with us. If our collaborators assist our competitors at our expense, our competitive position would be harmed.

To date, in excess of \$14,000,000 of funding has been awarded by the NIH to the primary inventor of the technology we license. We have little control over the direction of the NIH grant funds that have been received by the primary inventor of the technology we license and since payment is made to the inventor as opposed to us, we do not recognize any revenue from such grant funds nor do they fund any expenses that we incur.

Although earmarked for further development of the technology that we license, any funds awarded to the primary inventor are used in his discretion and we have little control over his use of the funds.

We will rely exclusively on third parties to formulate and manufacture our product candidates.

We have no experience in the formulation, development or manufacturing of biologics and do not intend to establish our own manufacturing facilities. We lack the resources and expertise to formulate or manufacture our own product candidates. The investigational products for our current Phase 1 and Phase 2 clinical trials are manufactured by our contractors under current good manufacturing practices, or cGMPs and we have entered into agreements with commercial-scale manufacturers for the production and supply of investigational product for additional Phase 2 and Phase 3 clinical trials as well as commercialization. We must also develop and validate a potency assay prior to submission of a license application. Such assays have traditionally proven difficult to develop for cell-based products and must be established prior to initiating any Phase 3 clinical trials. If any of our current product candidates, or any product candidates we may develop or acquire in the future, receive FDA approval, we will rely on one or more third-party contractors for manufacturing. Our anticipated future reliance on a limited number of third-party manufacturers exposes us to the following risks:

We may be unable to identify manufacturers on acceptable terms or at all because the number of potential manufacturers with appropriate expertise and facilities is limited.

If we change manufacturers at any point during the development process or after approval we will be required to demonstrate comparability between the products made by the old and new manufacturers. If we are unable to do so, we may need to conduct additional clinical trials with product manufactured by the new manufacturer. For example, the manufacturer of the clinical trial material we intend to use for any future Phase 3 trials of HS-110 and of our commercial product, if approved, is a different manufacturer from the manufacturer of the inventor's completed Phase 1 trial of HS-110 and the early portion of our planned initial Phase 2 trial of HS-110. Accordingly, it may be necessary to evaluate the comparability of the HS-110 produced by the two different manufacturers during the development of HS-110.

If we change the manufacturer of a product subsequent to the approval of the product, we will need to obtain approval from the FDA of the change in manufacturer. Any such approval would likely require significant testing and expense, and the new manufacturer may be subject to a cGMP inspection prior to approval.

Our third-party manufacturers might be unable to formulate and manufacture our product candidates in the volume and with the quality required to meet our clinical needs and commercial needs, if any.

Our contract manufacturers may not perform as agreed or may not remain in the contract manufacturing business for the time required to supply our clinical trials or to successfully produce, store and distribute our product candidates.

Drug manufacturers are subject to ongoing periodic unannounced inspection by the FDA, and corresponding state agencies to ensure compliance with cGMPs and other government regulations and corresponding foreign standards. We do not have control over third-party manufacturers' compliance with these regulations and standards.

If any third-party manufacturer makes improvements in the manufacturing process for our products, we may not own, or may have to share, the intellectual property rights to the innovation.

Our contract manufacturers have in the past and may in the future encounter difficulties in achieving quality control and quality assurance and may experience shortages in qualified personnel. Our contract manufacturers are subject to inspections by the FDA and comparable agencies in other jurisdictions to assess compliance with applicable regulatory requirements. Any failure to follow cGMP or other regulatory requirements or delay, interruption or other issues that arise in the manufacture, packaging, or storage of our products as a result of a failure of the facilities or operations of third parties to comply with regulatory requirements or pass any regulatory authority inspection could significantly impair our ability to develop and commercialize our products, including leading to significant delays in the availability of products for our clinical studies or the termination or hold on a clinical study, or the delay or prevention of a filing or approval of marketing applications for our product candidates. Significant noncompliance could also result in the imposition of sanctions, including fines, injunctions, civil penalties, failure of regulatory authorities to grant marketing approvals for our product candidates, delays, suspension or withdrawal of approvals, license revocation, seizures or recalls of products, operating restrictions and criminal prosecutions, any of which could damage our reputation. If we or our contract manufacturers are not able to maintain regulatory compliance, we may not be permitted to market our products and/or may be subject to product recalls, seizures, injunctions, or criminal prosecution.

Each of these risks could delay our clinical trials, the approval, if any, of our product candidates by the FDA or the commercialization of our product candidates or result in higher costs or deprive us of potential product revenues.

Even if we are able to obtain regulatory approval for our product candidates, we will continue to be subject to ongoing and extensive regulatory requirements, and our failure, or the failure of our contract manufacturers, to comply with these requirements could substantially harm our business.

If the FDA approves any of our product candidates, the labeling, manufacturing, packaging, adverse event reporting, storage, advertising, promotion and record-keeping for our products will be subject to ongoing FDA requirements and continued regulatory oversight and review. We may also be subject to additional FDA post-marketing obligations. If we are not able to maintain regulatory compliance, we may not be permitted to market our product candidates and/or may be subject to product recalls or seizures. The subsequent discovery of previously unknown problems with any marketed product, including adverse events of unanticipated severity or frequency, may result in restrictions on the marketing of the product, and could include withdrawal of the product from the market.

We have no experience selling, marketing or distributing products and have no internal capability to do so.

We currently have no sales, marketing or distribution capabilities. We do not anticipate having the resources in the foreseeable future to allocate to the sales and marketing of our proposed products, if approved. Our future success depends, in part, on our ability to enter into and maintain collaborative relationships for such capabilities, the collaborator's strategic interest in the products under development and such collaborator's ability to successfully market and sell any such products. We intend to pursue collaborative arrangements regarding the sales and marketing of our products, however, there can be no assurance that we will be able to establish or maintain such collaborative arrangements, or if able to do so, that our collaborators will have effective sales forces. To the extent that we decide not to, or are unable to, enter into collaborative arrangements with respect to the sales and marketing of our proposed products, significant capital expenditures, management resources and time will be required to establish and develop an in-house marketing and sales force with technical expertise. There can also be no assurance that we will be able to establish or maintain relationships with third party collaborators or develop in-house sales and distribution capabilities. To the extent that we depend on third parties for marketing and distribution, any revenues we receive will depend upon the efforts of such third parties, and there can be no assurance that such efforts will be successful. In addition, there can also be no assurance that we will be able to successfully market and sell our products in the United States or overseas on our own.

We may not be successful in establishing and maintaining strategic partnerships, which could adversely affect our ability to develop and commercialize products.

We may seek to enter into strategic partnerships in the future, including alliances with other biotechnology or pharmaceutical companies, to enhance and accelerate the development and commercialization of our products. We face significant competition in seeking appropriate strategic partners and the negotiation process is time-consuming and complex. Moreover, we may not be successful in our efforts to establish a strategic partnership or other alternative arrangements for any future product candidates and programs because our research and development pipeline may be insufficient, our product candidates and programs may be deemed to be at too early of a stage of development for collaborative effort and/or third parties may not view our product candidates and programs as having the requisite potential to demonstrate safety and efficacy or return on investment. Even if we are successful in our efforts to establish strategic partnerships, the terms that we agree upon may not be favorable to us and we may not be able to maintain such strategic partnerships if, for example, development or approval of a product candidate is delayed or sales of an approved product are disappointing.

If we ultimately determine that entering into strategic partnerships is in our best interest but either fail to enter into, are delayed in entering into or fail to maintain such strategic partnerships:

- the development of certain of our current or future product candidates may be terminated or delayed;
- our cash expenditures related to development of certain of our current or future product candidates may increase significantly and we may need to seek additional financing;
- we may be required to hire additional employees or otherwise develop expertise, such as sales and marketing expertise, for which we have not budgeted;
- we will bear all of the risk related to the development of any such product candidates;
- the competitiveness of any product candidate that is commercialized could be reduced.

To the extent we elect to enter into licensing or collaboration agreements to partner our product candidates, our dependence on such relationships may adversely affect our business.

Our commercialization strategy for certain of our product candidates may depend on our ability to enter into agreements with collaborators to obtain assistance and funding for the development and potential commercialization of these product candidates. Supporting diligence activities conducted by potential collaborators and negotiating the financial and other terms of a collaboration agreement are long and complex processes with uncertain results. Even if we are successful in entering into one or more collaboration agreements, collaborations may involve greater uncertainty for us, as we have less control over certain aspects of our collaborative programs than we do over our proprietary development and commercialization programs. We may determine that continuing a collaboration under the terms provided is not in our best interest, and we may terminate the collaboration. Our collaborators could delay or terminate their agreements, and our product candidates subject to collaborative arrangements may never be successfully developed or commercialized.

Further, our future collaborators may develop alternative products or pursue alternative technologies either on their own or in collaboration with others, including our competitors, and the priorities or focus of our collaborators may shift such that our programs receive less attention or fewer resources than we would like, or they may be terminated altogether. Any such actions by our collaborators may adversely affect our business prospects and ability to earn revenues. In addition, we could have disputes with our future collaborators, such as the interpretation of terms in our agreements. Any such disagreements could lead to delays in the development or commercialization of any potential products or could result in time-consuming and expensive litigation or arbitration, which may not be resolved in our favor.

If we cannot compete successfully for market share against other drug companies, we may not achieve sufficient product revenues and our business will suffer.

The market for our product candidates is characterized by intense competition and rapid technological advances. If any of our product candidates receives FDA approval, it will compete with a number of existing and future drugs and therapies developed, manufactured and marketed by others. Existing or future competing products may provide greater therapeutic convenience or clinical or other benefits for a specific indication than our products, or may offer comparable performance at a lower cost. If our products fail to capture and maintain market share, we may not achieve sufficient product revenues and our business will suffer.

We will compete against fully integrated pharmaceutical companies and smaller companies that are collaborating with larger pharmaceutical companies, academic institutions, government agencies and other public and private research organizations. Many of these competitors have oncology compounds already approved or in development. In addition, many of these competitors, either alone or together with their collaborative partners, operate larger research and development programs or have substantially greater financial resources than we do, as well as significantly greater experience in:

- developing drugs, biologics and other therapies;
- undertaking pre-clinical testing and clinical trials;
- obtaining FDA and other regulatory approvals of drugs, biologics and other therapies;
- formulating and manufacturing drugs, biologics and other therapies; and
- launching, marketing and selling drugs, biologics and other therapies.

We have limited protection of our intellectual property.

We intend to rely on a combination of common law copyright, patent, trademark, and trade secret laws and measures to protect our proprietary information. We have obtained exclusive rights to license the technology for which patent protection has been obtained; however such protection does not prevent unauthorized use of such technology. Trademark and copyright protections may be limited, and enforcement could be too costly to be effective. It may also be possible for unauthorized third parties to copy aspects of, or otherwise obtain and use, our proprietary information without authorization, including, but not limited to, product design, software, customer and prospective customer lists, trade secrets, copyrights, patents and other proprietary rights and materials. Other parties can use and register confusingly similar business, product and service names, as well as domain names, which could divert customers, resulting in a material adverse effect on our business, operating results and financial condition.

If we fail to successfully enforce our intellectual property rights, our competitive position could suffer, which could harm our operating results. Competitors may challenge the validity or scope of our patents or future patents we may obtain. In addition, our licensed patents may not provide us a meaningful competitive advantage. We may be required to spend significant resources to monitor and police our licensed intellectual property rights. We may not be able to detect infringement and our competitive position may be harmed. In addition, competitors may design around our technology or develop competing technologies. Intellectual property rights may also be unavailable or limited in some foreign countries, which could make it easier for competitors to capture market share.

The technology we license, our products or our development efforts may be found to infringe third-party intellectual property rights.

Third parties may in the future assert claims or initiate litigation related to their patent, copyright, trademark and other intellectual property rights in technology that is important to us. The asserted claims and/or litigation could include claims against us, our licensors or our suppliers alleging infringement of intellectual property rights with respect to our products or components of those products. Regardless of the merit of the claims, they could be time consuming, result in costly litigation and diversion of technical and management personnel, or require us to develop a non-infringing technology or enter into license agreements. We have not undertaken an exhaustive search to discover any third party intellectual patent rights which might be infringed by commercialization of the product candidates described herein. Although we are not currently aware of any such third party intellectual patent rights, it is possible that such rights currently exist or might be obtained in the future. In the event that a third party controls such rights and we are unable to obtain a license to such rights on commercially reasonable terms, we may not be able to sell or continue to develop our products, and may be liable for damages for such infringement. We cannot assure you that licenses will be available on acceptable terms, if at all. Furthermore, because of the potential for significant damage awards, which are not necessarily predictable, it is not unusual to find even arguably unmeritorious claims resulting in large settlements. If any infringement or other intellectual property claim made against us by any third party is successful, or if we fail to develop non-infringing technology or license the proprietary rights on commercially reasonable terms and conditions, our business, operating results and financial condition could be materially adversely affected.

If our products, methods, processes and other technologies infringe the proprietary rights of other parties, we could incur substantial costs and we may have to:

- obtain licenses, which may not be available on commercially reasonable terms, if at all;
- abandon an infringing drug or therapy candidate;
- redesign our products or processes to avoid infringement;
- stop using the subject matter claimed in the patents held by others;
- pay damages; or
- defend litigation or administrative proceedings which may be costly whether we win or lose, and which could result in a substantial diversion of our financial and management resources.

We rely on licenses to use various technologies that are material to our business and if the agreements were to be terminated or if other rights which may be necessary or we deem advisable for commercializing our intended products cannot be obtained, it would halt our ability to market our products and technology, as well as have an immediate material adverse effect on our business, operating results and financial condition.

We have licensing agreements with certain universities granting us the right to use certain critical intellectual property. The terms of the licensing agreements continues until the end of the life of the last patent to expire. If we breach the terms of these licensing agreements, including any failure to make minimum royalty payments required thereunder or failure to reach certain developmental milestones, using best efforts to introduce a licensed product in certain territories by certain dates, the licensor has the right to terminate the license. If we were to lose or otherwise be unable to maintain these licenses on acceptable terms, or find that it is necessary or appropriate to secure new licenses from other third parties, it would halt our ability to market our products and technology, which would have an immediate material adverse effect on our business, operating results and financial condition.

We may be unable to generate sufficient revenues to meet the minimum royalties or developmental milestones required under our license agreements.

For the years ended December 31, 2014, 2015, 2016, and 2017 our minimum royalty obligations under our licensing agreements, required to be paid with the passage of time, are \$30,000, \$30,000, \$30,000, and \$280,000, respectively, and thereafter through December 31, 2022, \$30,000 per year. No assurance can be given that we will generate sufficient revenue or raise additional financing to make these minimum royalty payments. The license agreements also provide for certain developmental milestones. No assurance can be given that we will meet all of the required developmental milestones. Any failure to make the payments or reach the milestones required by the license agreements would permit the licensor to terminate the license. If we were to lose or otherwise be unable to maintain these licenses, it would halt our ability to market our products and technology, which would have an immediate material adverse effect on our business, operating results and financial condition.

Our ability to generate product revenues will be diminished if our therapies sell for inadequate prices or patients are unable to obtain adequate levels of reimbursement.

Our ability to commercialize our vaccines, alone or with collaborators, will depend in part on the extent to which reimbursement will be available from:

- government and health administration authorities;
- private health maintenance organizations and health insurers; and
- other healthcare payers.

Significant uncertainty exists as to the reimbursement status of newly approved healthcare products. Healthcare payers, including Medicare, are challenging the prices charged for medical products and services. Cost control initiatives could decrease the price that we would receive for any products in the future, which would limit our revenue and profitability. Government and other healthcare payers increasingly attempt to contain healthcare costs by limiting both coverage and the level of reimbursement for drugs and therapeutics. We might need to conduct post-marketing studies in order to demonstrate the cost-effectiveness of any future products to such payers' satisfaction. Such studies might require us to commit a significant amount of management time and financial and other resources. Our future products might not ultimately be considered cost-effective. Even if one of our product candidates is approved by the FDA, insurance coverage may not be available, and reimbursement levels may be inadequate, to cover such vaccines. If government and other healthcare payers do not provide adequate coverage and reimbursement levels for one of our products, once approved, market acceptance of such product could be reduced.

Legislative and regulatory changes affecting the health care industry could adversely affect our business.

Political, economic and regulatory influences are subjecting the health care industry to potential fundamental changes that could substantially affect our results of operations. U.S. and foreign governments, for example, continue to propose and pass legislation designed to reduce the cost of healthcare. In some foreign markets, the government controls the pricing and profitability of prescription pharmaceuticals. In the U.S., we expect that there will continue to be federal and state proposals to implement similar governmental controls. In addition, recent changes in the Medicare program and increasing emphasis on managed care in the United States will continue to put pressure on pharmaceutical product pricing. It is uncertain whether or when any legislative proposals will be adopted or what actions federal, state, or private payers for health care treatment and services may take in response to any health care reform proposal or legislation. We cannot predict the effect health care reforms may have on our business and we can offer no assurances that any of these reforms will not have a material adverse effect on our business. These actual and potential changes are causing the marketplace to put increased emphasis on the delivery of more cost-effective treatments. In addition, uncertainty remains regarding proposed significant reforms to the U.S. health care system.

We may not successfully effect our intended expansion.

Our success will depend upon the expansion of our operations and the effective management of our growth, which will place a significant strain on our management and on our administrative, operational and financial resources. To manage this growth, we must expand our facilities, augment our operational, financial and management systems and hire and train additional qualified personnel. If we are unable to manage our growth effectively, our business would be harmed.

We may be exposed to liability claims associated with the use of biological and hazardous materials and chemicals.

Our research and development activities may involve the controlled use of biological and hazardous materials and chemicals. Although we believe that our safety procedures for using, storing, handling and disposing of these materials comply with federal, state and local laws and regulations, we cannot completely eliminate the risk of accidental injury or contamination from these materials. In the event of such an accident, we could be held liable for any resulting damages and any liability could materially adversely affect our business, financial condition and results of operations. In addition, the federal, state and local laws and regulations governing the use, manufacture, storage, handling and disposal of hazardous or radioactive materials and waste products may require us to incur substantial compliance costs that could materially adversely affect our business, financial condition and results of operations.

We rely on key executive officers and scientific and medical advisors, and their knowledge of our business and technical expertise would be difficult to replace.

We are highly dependent on our principal scientific, regulatory and medical advisors and our chief executive officer. Other than a \$2,000,000 insurance policy on the life of Jeffrey Wolf, we do not have “key person” life insurance policies for any of our officers or advisors. The loss of the technical knowledge and management and industry expertise of any of our key personnel could result in delays in product development, loss of customers and sales and diversion of management resources, which could adversely affect our operating results.

If we are unable to hire additional qualified personnel or retain current personnel, our ability to grow our business may be harmed.

We compete for qualified individuals with numerous biopharmaceutical companies, universities and other research institutions. Competition for such individuals is intense, and we cannot be certain that we will be able to hire additional qualified personnel with expertise in pre-clinical and clinical research, government regulation, formulation and manufacturing, sales and marketing and accounting and financing or that we will be able to retain personnel. Attracting and retaining qualified personnel will be critical to our success.

Certain of our officers, employees and consultants may have a conflict of interest.

Certain of our officers, employees and consultants are currently working for the Company on a part-time basis. These part-time individuals also work at other jobs and have discretion to decide what time they devote to our activities, which may result in a lack of availability when needed due to responsibilities at other jobs. We expect that any part-time individuals may join the Company on a full-time basis, but there can be no assurance given that any of such individuals will be so employed.

We may incur substantial liabilities and may be required to limit commercialization of our products in response to product liability lawsuits.

The testing and marketing of drug and biological product candidates entail an inherent risk of product liability. Product liability claims might be brought against us by consumers, health care providers or others selling or otherwise coming into contact with our products. Clinical trial liability claims may be filed against us for damages suffered by clinical trial subjects or their families. If we cannot successfully defend ourselves against product liability claims, we may incur substantial liabilities or be required to limit commercialization of our products which could impact our ability to continue as a going concern. Our inability to obtain sufficient product liability insurance at an acceptable cost to protect against potential product liability claims could prevent or inhibit the commercialization of pharmaceutical products we develop, alone or with collaborators. In addition, regardless of merit or eventual outcome, product liability claims may result in:

- decreased demand for any approved product candidates;
- impairment of our business reputation;
- withdrawal of clinical trial participants;
- costs of related litigation;
- distraction of management’s attention;
- substantial monetary awards to patients or other claimants;
- loss of revenues; and
- the inability to successfully commercialize any approved drug candidates.

International expansion of our business exposes us to business, regulatory, political, operational, financial and economic risks associated with doing business outside of the United States.

Our business strategy incorporates international expansion, including establishing and maintaining clinician marketing and education capabilities outside of the United States and expanding our relationships with distributors and manufacturers. Doing business internationally involves a number of risks, including:

- multiple, conflicting and changing laws and regulations such as tax laws, export and import restrictions, employment laws, regulatory requirements and other governmental approvals, permits and licenses;
- failure by us or our distributors to obtain regulatory approvals for the sale or use of our product candidates in various countries;
- difficulties in managing foreign operations;

- complexities associated with managing multiple payor-reimbursement regimes or self-pay systems;
- limits on our ability to penetrate international markets if our product candidates cannot be processed by a manufacturer appropriately qualified in such markets;
- financial risks, such as longer payment cycles, difficulty enforcing contracts and collecting accounts receivable and exposure to foreign currency exchange rate fluctuations;
- reduced protection for intellectual property rights;
- natural disasters, political and economic instability, including wars, terrorism and political unrest, outbreak of disease, boycotts, curtailment of trade and other business restrictions; and
- failure to comply with the Foreign Corrupt Practices Act, including its books and records provisions and its anti-bribery provisions, by maintaining accurate information and control over sales and distributors' activities.

Any of these risks, if encountered, could significantly harm our future international expansion and operations and, consequently, have a material adverse effect on our financial condition, results of operations and cash flows.

We may acquire other businesses or form joint ventures or make investments in other companies or technologies that could harm our operating results, dilute our stockholders' ownership, increase our debt or cause us to incur significant expense.

As part of our business strategy, we may pursue acquisitions of businesses and assets. We also may pursue strategic alliances and joint ventures that leverage our core technology and industry experience to expand our offerings or distribution. We have no experience with acquiring other companies and limited experience with forming strategic alliances and joint ventures. We may not be able to find suitable partners or acquisition candidates, and we may not be able to complete such transactions on favorable terms, if at all. If we make any acquisitions, we may not be able to integrate these acquisitions successfully into our existing business, and we could assume unknown or contingent liabilities. Any future acquisitions also could result in significant write-offs or the incurrence of debt and contingent liabilities, any of which could have a material adverse effect on our financial condition, results of operations and cash flows. Integration of an acquired company also may disrupt ongoing operations and require management resources that would otherwise focus on developing our existing business. We may experience losses related to investments in other companies, which could have a material negative effect on our results of operations. We may not identify or complete these transactions in a timely manner, on a cost-effective basis, or at all, and we may not realize the anticipated benefits of any acquisition, technology license, strategic alliance or joint venture.

To finance any acquisitions or joint ventures, we may choose to issue shares of our common stock as consideration, which would dilute the ownership of our stockholders. If the price of our common stock is low or volatile, we may not be able to acquire other companies or fund a joint venture project using our stock as consideration. Alternatively, it may be necessary for us to raise additional funds for acquisitions through public or private financings. Additional funds may not be available on terms that are favorable to us, or at all.

Declining general economic or business conditions may have a negative impact on our business.

Continuing concerns over United States health care reform legislation and energy costs, geopolitical issues, the availability and cost of credit and government stimulus programs in the United States and other countries have contributed to increased volatility and diminished expectations for the global economy. These factors, combined with low business and consumer confidence and high unemployment, precipitated an economic slowdown and recession. If the economic climate does not improve or continues to deteriorate, our business, as well as the financial condition of our suppliers and our third-party payors, could be adversely affected, resulting in a negative impact on our business, financial condition and results of operations.

The U.S. government may have "march-in rights" to certain of our intellectual property.

Because federal grant monies were used in support of the research and development activities that resulted in certain of our issued pending U.S. patent applications, the federal government retains what are referred to as "march-in rights" to patents that are granted on these applications.

In particular, the National Institutes of Health, which administered grant monies to the primary inventor of the technology we license, technically retain the right to require us, under certain specific circumstances, to grant the U.S. government either a nonexclusive, partially exclusive or exclusive license to the patented invention in any field of use, upon terms that are reasonable for a particular situation. Circumstances that trigger march-in rights include, for example, failure to take, within a reasonable time, effective steps to achieve practical application of the invention in a field of use, failure to satisfy the health and safety needs of the public and failure to meet requirements of public use specified by federal regulations. The National Institutes of Health can elect to exercise these march-in rights on their own initiative or at the request of a third-party.

Risks Related to Our Common Stock

Certain of our officers and directors have sufficient voting power to make corporate governance decisions that could have a significant effect on us and the other stockholders.

As of September 30, 2014, our officers and directors together beneficially own approximately 34.5% of our outstanding common stock on a fully diluted basis. Mr. Wolf alone through his direct and indirect holdings beneficially owns approximately 20.5% of our outstanding common stock on a fully diluted basis. As a result, Mr. Wolf, alone will be able to exert a significant degree of influence over our management and affairs and over matters requiring stockholder approval, including the election of directors and approval of significant corporate transactions. In addition, this concentration of ownership may delay or prevent a change in our control and might affect the market price of our common stock, even when a change in control may be in the best interest of all stockholders. Furthermore, the interests of this concentration of ownership may not always coincide with our interests or the interests of other stockholders. Accordingly, these stockholders could cause us to enter into transactions or agreements that we would not otherwise consider.

The possible issuance of common stock subject to options and warrants may dilute the interest of stockholders.

In 2009, we adopted a 2009 Stock Option and Restricted Stock Plan. In 2014, we adopted a 2014 Stock Option and Restricted Stock Plan. Combined, under the two plans, we may grant awards to purchase 1,369,565 shares of our common stock, of which, 836,961 options were outstanding and 99,906 shares of restricted stock were outstanding as of September 30, 2014. In addition, as of September 30, 2014, we have 17,392 shares issuable upon exercise of warrants granted to third parties in connection with prior private placements of our equity securities and debt which excludes 125,000 shares of common stock issuable at \$12.50 per share upon exercise of warrants issued to the underwriters in connection with our initial public offering. To the extent that outstanding stock options and warrants are exercised, or additional securities are issued, dilution to the interests of our stockholders may occur. Moreover, the terms upon which we will be able to obtain additional equity capital may be adversely affected since the holders of the outstanding options can be expected to exercise them at a time when we would, in all likelihood, be able to obtain any needed capital on terms more favorable to us than those provided in such outstanding options.

We have additional securities available for issuance, which, if issued, could adversely affect the rights of the holders of our common stock.

Our Third Amended and Restated Certificate of Incorporation authorizes the issuance of 50,000,000 shares of our common stock and 8,212,500 shares of Preferred Stock. In certain circumstances, the common stock and preferred stock, as well as the awards available for issuance under the 2009 and 2014 Stock Option and Restricted Stock Plans, can be issued by our board of directors, without stockholder approval. Any future issuances of such stock would further dilute the percentage ownership of us held by holders of our securities. In addition, the issuance of Preferred Stock may be used as an “anti-takeover” device without further action on the part of our stockholders, and may adversely affect the holders of the common stock.

We have never paid dividends and have no plans to pay dividends in the future.

Holders of shares of our common stock are entitled to receive such dividends as may be declared by our board of directors. To date, we have paid no cash dividends on our shares of our preferred or common stock and we do not expect to pay cash dividends in the foreseeable future. We intend to retain future earnings, if any, to provide funds for operations of our business. Therefore, any return investors in our preferred or common stock may have will be in the form of appreciation, if any, in the market value of their shares of common stock.

We are an “emerging growth company,” and any decision on our part to comply with certain reduced disclosure requirements applicable to emerging growth companies could make our common stock less attractive to investors.

We are an “emerging growth company,” as defined in the Jumpstart Our Business Startups Act enacted in April 2012, and, for as long as we continue to be an emerging growth company, we may choose to take advantage of exemptions from various reporting requirements applicable to other public companies including, but not limited to, not being required to comply with the auditor attestation requirements of Section 404 of the Sarbanes-Oxley Act of 2002, not being required to comply with any new requirements adopted by the Public Company Accounting Oversight Board, or the PCAOB, requiring mandatory audit firm rotation or a supplement to the auditor’s report in which the auditor would be required to provide additional information about the audit and the financial statements of the issuer, not being required to comply with any new audit rules adopted by the PCAOB after April 5, 2012 unless the SEC determines otherwise, reduced disclosure obligations regarding executive compensation in our periodic reports and proxy statements, and exemptions from the requirements of holding a nonbinding advisory vote on executive compensation and stockholder approval of any golden parachute payments not previously approved. We could remain an emerging growth company until the earliest of: (i) the last day of the fiscal year in which we have total annual gross revenues of \$1 billion or more; (ii) the last day of our fiscal year following the fifth anniversary of the date of our first sale of common equity securities pursuant to an effective registration statement; (iii) the date on which we have issued more than \$1 billion in nonconvertible debt during the previous three years; or (iv) the date on which we are deemed to be a large accelerated filer. We cannot predict if investors will find our common stock less attractive if we choose to rely on these exemptions. If some investors find our common stock less attractive as a result of any choices to reduce future disclosure, there may be a less active trading market for our common stock and our stock price may be more volatile. Further, as a result of these scaled regulatory requirements, our disclosure may be more limited than that of other public companies and you may not have the same protections afforded to shareholders of such companies.

Under Section 107(b) of the Jumpstart Our Business Startups Act, emerging growth companies can delay adopting new or revised accounting standards until such time as those standards apply to private companies. We have irrevocably elected not to avail ourselves of this exemption from new or revised accounting standards and, therefore, we will be subject to the same new or revised accounting standards as other public companies that are not emerging growth companies.

As a result of being a public company, we are subject to additional reporting and corporate governance requirements that will require additional management time, resources and expense.

As a public company we are obligated to file with the U.S. Securities and Exchange Commission annual and quarterly information and other reports that are specified in the U.S. Securities Exchange Act of 1934, as amended, or the Exchange Act. We are also subject to other reporting and corporate governance requirements under the Sarbanes-Oxley Act of 2002, as amended, and the rules and regulations promulgated thereunder, all of which impose significant compliance and reporting obligations upon us and require us to incur additional expense in order to fulfill such obligations.

We have identified material weaknesses in our internal controls, and we cannot provide assurances that these weaknesses will be effectively remediated or that additional material weaknesses will not occur in the future. If our internal control over financial reporting or our disclosure controls and procedures are not effective, we may not be able to accurately report our financial results, prevent fraud, or file our periodic reports in a timely manner, which may cause investors to lose confidence in our reported financial information and may lead to a decline in our stock price.

Our management is responsible for establishing and maintaining adequate internal control over our financial reporting, as defined in Rule 13a-15(f) under the Exchange Act. Prior to the closing of our initial public offering in July 2013, we operated as a private company and the number and qualifications of our finance and accounting staff have not been consistent with those of a public company. We have identified material weaknesses in our internal controls with respect to our financial statement closing process of our consolidated financial statements for the years ended December 31, 2013 and 2012. Our management discovered certain conditions that we deemed to be material weaknesses and significant deficiencies in our internal controls, as follows:

Insufficient controls over timely financial statement preparation and review as well as the preparation and review around accounting for certain complex transactions.

The design of monitoring controls used to assess the design and operating effectiveness of our internal controls is inadequate. We also do not have an adequate internal process to report deficiencies in internal control to management on a timely basis.

Future sales of our common stock by our existing shareholders could cause our stock price to decline.

As of September 30, 2014, we have 6,481,752 shares of our common stock outstanding, all of which are currently eligible for sale in the public market, subject, in certain circumstances to the volume, manner of sale and other limitations under Rule 144 or 701 promulgated under the Securities Act. It is conceivable that shareholders may wish to sell some or all of their shares. If our shareholders sell substantial amounts of our common stock in the public market at the same time, the market price of our common stock could decrease significantly due to an imbalance in the supply and demand of our common stock. Even if they do not actually sell the stock, the perception in the public market that our shareholders might sell significant shares of our common stock could also depress the market price of our common stock.

A decline in the price of shares of our common stock might impede our ability to raise capital through the issuance of additional shares of our common stock or other equity securities, and may cause shareholders to lose part or all of their investment in our shares of common stock.

Our shares of common stock are from time to time thinly traded, so stockholders may be unable to sell at or near ask prices or at all if they need to sell shares to raise money or otherwise desire to liquidate their shares.

Our common stock has from time to time been “thinly-traded,” meaning that the number of persons interested in purchasing our common stock at or near ask prices at any given time may be relatively small or non-existent. This situation is attributable to a number of factors, including the fact that we are a small company that is relatively unknown to stock analysts, stock brokers, institutional investors and others in the investment community that generate or influence sales volume, and that even if we came to the attention of such persons, they tend to be risk-averse and would be reluctant to follow an unproven company such as ours or purchase or recommend the purchase of our shares until such time as we became more seasoned and viable. As a consequence, there may be periods of several days or more when trading activity in our shares is minimal or non-existent, as compared to a seasoned issuer which has a large and steady volume of trading activity that will generally support continuous sales without an adverse effect on share price. We cannot give stockholders any assurance that a broader or more active public trading market for our common shares will develop or be sustained, or that current trading levels will be sustained.

Our need for future financing may result in the issuance of additional securities which will cause investors to experience dilution.

Our cash requirements may vary from those now planned depending upon numerous factors, including the result of future research and development activities. We believe that the proceeds we received from the sale of the shares in our initial public offering and our private placement as well as our Loan will provide us with sufficient working capital for at least the next twelve months. Thereafter, we expect to require additional funds in the future to conduct additional clinical trials. There are no other commitments by any person for future financing. Our securities may be offered to other investors at a price lower than the price per share offered to current shareholders, or upon terms which may be deemed more favorable than those offered to current shareholders. In addition, the issuance of securities in any future financing may dilute an investor's equity ownership. Moreover, we may issue derivative securities, including options and/or warrants, from time to time, to procure qualified personnel or for other business reasons. The issuance of any such derivative securities, which is at the discretion of our board of directors, may further dilute the equity ownership of our stockholders. No assurance can be given as to our ability to procure additional financing, if required, and on terms deemed favorable to us. To the extent additional capital is required and cannot be raised successfully, we may then have to limit our then current operations and/or may have to curtail certain, if not all, of our business objectives and plans.

Certain provisions of the General Corporation Law of the State of Delaware may have anti-takeover effects which may make an acquisition of our company by another company more difficult.

We are subject to the provisions of Section 203 of the General Corporation Law of the State of Delaware, which prohibits a Delaware corporation from engaging in any business combination, including mergers and asset sales, with an interested stockholder (generally, a 15% or greater stockholder) for a period of three years after the date of the transaction in which the person became an interested stockholder, unless the business combination is approved in a prescribed manner. The operation of Section 203 may have anti-takeover effects, which could delay, defer or prevent a takeover attempt that a holder of our common stock might consider in its best interest.

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

RECENT SALES OF UNREGISTERED SECURITIES

On September 4, 2014, we issued 17,664 shares of our common stock to Square 1 Bank upon its exercise of the warrant that it was issued on August 22, 2014 in connection with the loan and security agreement that we entered into with Square 1 Bank on August 22, 2014. The issuance of the shares of common stock upon exercise of the warrant qualified for exemption from registration under Section 3(a)(9) of the Securities Act of 1933, as amended.

Use of Proceeds

In connection with our initial public offering, we sold 2,700,000 (including the 200,000 over-allotment option shares) shares of our common stock at a price of \$10.00 per share. Aggregate gross proceeds from the IPO, were \$27 million and net proceeds received after underwriting commissions and offering expenses of \$2.7 million were approximately \$24.3 million.

As of September 30, 2014, we have used approximately \$12.0 million of the net proceeds, in connection with our clinical trials, manufacturing and general and administrative expenses. In February 2014 we paid bonuses to our executive officers and other employees in the amount of \$183,125. There has been no material change in our planned use of the balance of the net proceeds from the offering as described in the prospectus filed with the SEC pursuant to Rule 424(b) under the Securities Act other than as previously reported.

PURCHASE OF EQUITY SECURITIES

None.

ITEM 3. DEFAULTS UPON SENIOR SECURITIES

Not Applicable.

ITEM 4. MINE SAFETY DISCLOSURES

Not Applicable.

ITEM 5. OTHER INFORMATION.

None.

ITEM 6. EXHIBITS.

The exhibits filed as part of this Quarterly Report on Form 10-Q are set forth on the Exhibit Index, which Exhibit Index is incorporated herein by reference.

SIGNATURES

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

HEAT BIOLOGICS, INC.

Date: November 14, 2014

By: /s/ JEFFREY A. WOLF
Jeffrey A. Wolf
Chairman and Chief Executive Officer
(Principal executive officer)

Date: November 14, 2014

By: /s/ MATTHEW E. CZAJKOWSKI
Matthew E. Czajkowski
Chief Financial Officer
(Principal financial and accounting officer)

EXHIBIT INDEX

Exhibit No.	Description
4.1	Loan Agreement with Square 1 Bank (Incorporated by reference to the 8-K filed on August 25, 2014)
4.2	Warrant issued to Square 1 Bank (Incorporated by reference to the 8-K filed on August 25, 2014)
31.1*	Certification of Chief Executive Officer pursuant to Rules 13a-14(a) or 15d-14(a) of the Securities Exchange Act of 1934, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
31.2*	Certification of Chief Financial Officer pursuant to Rules 13a-14(a) or 15d-14(a) of the Securities Exchange Act of 1934, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
32.1*	Certification of Chief Executive Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.
32.2*	Certification of Chief Financial Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.
101.INS*	XBRL Instance Document
101.SCH*	XBRL Taxonomy Extension Schema Document
101.CAL*	XBRL Taxonomy Extension Calculation Linkbase Document
101.DEF*	XBRL Taxonomy Extension Definition Linkbase Document
101.LAB*	XBRL Taxonomy Extension Label Linkbase Document
101.PRE*	XBRL Taxonomy Extension Presentation Linkbase Document

* Filed herewith.

**CERTIFICATION OF PRINCIPAL EXECUTIVE OFFICER
PURSUANT TO RULE 13a-14 OR RULE 15d-14 OF THE SECURITIES EXCHANGE ACT OF 1934,
AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002**

I, Jeffrey Wolf, certify that:

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

Date: November 14, 2014

By: /s/ Jeffrey Wolf
Name: Jeffrey Wolf
Title: Chairman, President and Chief
Executive Officer
(Principal Executive Officer)

**CERTIFICATION OF PRINCIPAL FINANCIAL OFFICER
PURSUANT TO RULE 13a-14 OR RULE 15d-14 OF THE SECURITIES EXCHANGE ACT OF 1934,
AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002**

I, Matthew Czajkowski, certify that:

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

Date: November 14, 2014

By: /s/ Matthew Czajkowski
Name: Matthew Czajkowski
Title: Chief Financial Officer
(Principal Financial and Accounting
Officer)

**CERTIFICATION PRINCIPAL EXECUTIVE OFFICER
PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

Pursuant to 18 U.S.C. § 1350, as created by Section 906 of the Sarbanes-Oxley Act of 2002, the undersigned officer of Heat Biologics, Inc. (the "Registrant") hereby certifies, to such officer's knowledge, that:

- (1) the accompanying Quarterly Report on Form 10-Q of the Registrant for the quarter ended September 30, 2014 (the "Report") fully complies with the requirements of Section 13(a) or Section 15(d), as applicable, of the Securities Exchange Act of 1934, as amended; and
- (2) the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Registrant.

Date: November 14, 2014

By: /s/ Jeffrey Wolf
Name: Jeffrey Wolf
Title: Chairman, President and Chief
Executive Officer
(Principal Executive Officer)

**CERTIFICATION PRINCIPAL FINANCIAL OFFICER
PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

Pursuant to 18 U.S.C. § 1350, as created by Section 906 of the Sarbanes-Oxley Act of 2002, the undersigned officer of Heat Biologics, Inc. (the "Registrant") hereby certifies, to such officer's knowledge, that:

- (1) the accompanying Quarterly Report on Form 10-Q of the Registrant for the quarter ended September 30, 2014 (the "Report") fully complies with the requirements of Section 13(a) or Section 15(d), as applicable, of the Securities Exchange Act of 1934, as amended; and
- (2) the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Registrant.

Date: November 14, 2014

By: /s/ Matthew Czajkowski
Name: Matthew Czajkowski
Title: Chief Financial Officer
(Principal Financial and Accounting
Officer)