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

FORM S-8
REGISTRATION STATEMENT
UNDER
THE SECURITIES ACT OF 1933

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 Number)*

**801 Capitola Drive
Durham, NC 27713
(919) 240-7133**
*(Address, including ZIP code, and telephone number, including
area code, of registrant's principal executive office)*

HEAT BIOLOGICS, INC. AMENDED AND RESTATED 2014 STOCK INCENTIVE PLAN
(Full title of the Plan)

**Jeffrey Wolf
Heat Biologics, Inc.
801 Capitola Drive
Durham, NC 27713
(919) 240-7133**
(Name, address and telephone number of agent of services)

WITH COPIES TO:

**Leslie Marlow, Esq.
Gracin & Marlow, LLP
The Chrysler Building
405 Lexington Avenue, 26th Floor
New York, New York 10174
(212) 907-6457**
(Name, address and telephone number)

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. (Do not check if smaller reporting company):

Large Accelerated Filer ☐

Accelerated Filer ☐

Non-Accelerated Filer ☐

Smaller Reporting Company ☒

CALCULATION OF REGISTRATION FEE

TITLE OF SECURITIES BEING REGISTERED	AMOUNT TO BE REGISTERED (1)(2)	PROPOSED MAXIMUM OFFERING PRICE PER SHARE(3)	PROPOSED AGGREGATE OFFERING PRICE(3)	AMOUNT OF REGISTRATION FEE(4)
Common Stock, par value \$0.0002 per share, under the 2014 Stock Incentive Plan	1,900,000	\$1.61	\$3,059,000	\$308.04

- (1) The securities to be registered include options and rights to acquire the common stock, par value \$0.0002 per share (the “Common Stock”), of Heat Biologics, Inc.
- (2) Pursuant to Rule 416(a) under the Securities Act of 1933, as amended (the “Securities Act”), this registration statement also covers any additional securities that may be offered or issued in connection with any stock split, stock dividend or similar transaction.
- (3) Estimated pursuant to Rule 457(c) and 457(h) of the Securities Act solely for purposes of calculating the registration fee. The price for the shares of Common Stock is based upon the average of the high and low prices of the Common Stock on August 10, 2016, as reported by the NASDAQ Capital Market.
- (4) Calculated under Section 6(b) of the Securities Act as .00010070 of the aggregate offering price.

EXPLANATORY NOTE

The Registrant filed with the Securities and Exchange Commission (the “SEC”) its Registration Statement on Form S-8 (Registration No. 333-196763) on June 13, 2014 (the “2014 Registration Statement”) pursuant to and in accordance with the requirements of General Instruction E to Form S-8 for the purpose of registering under the Securities Act of 1933, as amended (the “Securities Act”), 500,000 shares of Common Stock to be offered and sold under the Registrant’s Amended and Restated 2014 Stock Incentive Plan (the “Plan”). Pursuant to General Instruction E to Form S-8, the contents of the 2014 Registration Statement are incorporated into this Registration Statement by reference.

The Registrant filed with the SEC its Registration Statement on Form S-8 (Registration No. 333-207108) on September 24, 2015 (the “2015 Registration Statement”) pursuant to and in accordance with the requirements of General Instruction E to Form S-8 for the purpose of registering under the Securities Act an additional 600,000 shares of Common Stock to be offered and sold under the Plan. Pursuant to General Instruction E to Form S-8, the contents of the 2015 Registration Statement are incorporated into this Registration Statement by reference.

This Registration Statement on Form S-8 has been prepared and filed pursuant to and in accordance with the requirements of General Instruction E to Form S-8 for the purpose of registering under the Securities Act an additional 1,900,000 shares of Common Stock to be offered and sold under the Plan. These shares represented 1,900,000 shares of Common Stock that were added to the Plan as of July 19, 2016 by vote of the Registrant’s stockholders at the Registrant’s 2016 Annual Meeting of Stockholder and, in accordance with the terms of the Plan, are to be assigned to and made available for grant under the Plan.

PART I
INFORMATION REQUIRED IN THE SECTION 10(a) PROSPECTUS

The information specified in Item 1 and Item 2 of Part I of this Registration Statement on Form S-8 is omitted from this filing in accordance with the provisions of Rule 428 under the Securities Act, and the introductory note to Part I of Form S-8. The documents containing the information specified in Part I will be delivered to the participants in the Plan as required by Rule 428. Such documents and the documents incorporated by reference in this Registration Statement pursuant to Item 3 of Part II of this Registration Statement, taken together, constitute a prospectus that meets the requirements of Section 10(a) of the Securities Act.

PART II
INFORMATION REQUIRED IN THE REGISTRATION STATEMENT

ITEM 3. INCORPORATION OF DOCUMENTS BY REFERENCE

The Securities and Exchange Commission (the “SEC”) allows us to “incorporate by reference” the information we file with it which means that we can disclose important information to you by referring you to those documents instead of having to repeat the information in this prospectus. The information incorporated by reference is considered to be part of this prospectus, and later information that we file with the SEC will automatically update and supersede this information. We incorporate by reference the documents listed below and any future filings made with the SEC under Sections 13(a), 13(c), 14 or 15(d) of the Exchange Act between the date of this prospectus and the termination of the offering:

- Our Annual Report on Form 10-K for the year ended December 31, 2015 (File No. 001-35994) filed with the SEC on February 18, 2016;
- Our Quarterly Report on Form 10-Q for the quarter ended March 31, 2016 (File No. 001-35994) filed with the SEC on May 11, 2016;
- Our Quarterly Report on Form 10-Q for the quarter ended June 30, 2016 (File No. 001-35994) filed with the SEC on August 15, 2016;
- Our Current Reports on Form 8-K (File No. 001-35994) filed with the SEC on January 15, 2016, February 23, 2016, February 25, 2016, March 3, 2016, March 18, 2016, March 24, 2016, April 7, 2016, April 25, 2016, May 3, 2016, July 1, 2016, July 21, 2016 and August 15, 2016; and
- The description of our common stock set forth in our registration statement on Form 8-A, filed with the SEC on July 8, 2013 (File No. 001-35994).

All reports and other documents subsequently filed by the Company pursuant to Sections 13(a), 13(c), 14 or 15(d) of the Exchange Act shall be deemed to be incorporated by reference in this Registration Statement and to be a part of this Registration Statement from the respective date of filing of each of those reports or documents until the filing of a post-effective amendment to this Registration Statement which indicates either that all securities offered by this Registration Statement have been sold or which deregisters all of the securities under this Registration Statement then remaining unsold.

Any statement contained in this Registration Statement or in a document incorporated or deemed to be incorporated by reference in this Registration Statement shall be deemed to be modified or superseded for purposes of this Registration Statement to the extent that a statement contained in this Registration Statement or in any other subsequently filed document which also is or is deemed to be incorporated by reference in this Registration Statement modifies or supersedes that statement. Any statement so modified or superseded shall not be deemed, except as so modified or superseded, to constitute a part of this Registration Statement.

ITEM 4. DESCRIPTION OF SECURITIES

Not applicable.

ITEM 5. INTERESTS OF NAMED EXPERTS AND COUNSEL

Not applicable.

ITEM 6. INDEMNIFICATION OF DIRECTORS AND OFFICERS

Section 145 of the Delaware General Corporation Law authorizes a court to award, or a corporation’s board of directors to grant, indemnity to directors and officers in terms sufficiently broad to permit such indemnification under certain circumstances for liabilities, including reimbursement for expenses incurred, arising under the Securities Act.

Our amended and restated certificate of incorporation provides for indemnification of our directors and executive officers to the maximum extent permitted by the Delaware General Corporation Law, and our amended and restated bylaws provide for indemnification of our directors and executive officers to the maximum extent permitted by the Delaware General Corporation Law.

ITEM 7. EXEMPTION FROM REGISTRATION CLAIMED

Not applicable.



ITEM 8. EXHIBITS

Exhibit No.	Description of Document
3.1	Third Amended and Restated Certificate of Incorporation (1)
3.2	Certificate of Amendment to the Third Amended and Restated Certificate of Incorporation (2)
3.2	Amended and Restated Bylaws (3)
4.1	Amended and Restated 2014 Incentive Stock Plan (4)
5.1	Opinion of Gracin & Marlow, LLP regarding Legality of Shares (4)
23.1	Consent of BDO USA, LLP, Independent Registered Public Accounting Firm (4)
23.2	Consent of Gracin & Marlow, LLP (contained in Exhibit 5.1) (4)
24.1	Power of Attorney (included as part of the signature page to this Registration Statement and incorporated herein by reference) (4)

- (1) Incorporated by reference to the Registrant's Form S-1 filed with the Securities and Exchange Commission on May 6, 2013.
(2) Incorporated by reference to the Registrant's Form S-1 filed with the Securities and Exchange Commission on May 30, 2013.
(3) Incorporated by reference to the Registrant's Form 8-K filed with the Securities and Exchange Commission on January 16, 2016.
(4) Filed herewith.

ITEM 9. UNDERTAKINGS

The undersigned Registrant hereby undertakes:

1. To file, during any period in which offers or sales are being made, a post-effective amendment to this registration statement:
 - i. To include any prospectus required by Section 10(a)(3) of the Securities Act of 1933, as amended;
 - ii. To reflect in the prospectus any facts or events arising after the effective date of this registration statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in this Registration Statement;
 - iii. To include any material information with respect to the plan of distribution not previously disclosed in this registration statement or any material change to such information in the registration statement; provided, however, that paragraphs (a)(1)(i) and (a)(1)(ii) do not apply if the information required to be included in a post-effective amendment by those paragraphs is contained in periodic reports filed by the Registrant pursuant to Section 13 or Section 15(d) of the Securities Exchange Act of 1934 that are incorporated by reference in this Registration Statement.
2. That, for the purpose of determining any liability under the Securities Act of 1933, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.
3. To remove from registration by means of a post-effective amendment any of the securities being registered that remain unsold at the termination of the offering.
4. That, for purposes of determining any liability under the Securities Act of 1933, each filing of the Registrant's annual report pursuant to section 13(a) or section 15(d) of the Securities Exchange Act of 1934 (and, where applicable, each filing of an employee benefit plan's annual report pursuant to section 15(d) of the Securities Exchange Act of 1934) that is incorporated by reference in the registration statement shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.
5. Insofar as indemnification for liabilities arising under the Securities Act of 1933 may be permitted to directors, officers and controlling persons of the Registrant, the Registrant has been advised that in the opinion of the SEC such indemnification is against public policy as expressed in the Securities Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the Registrant of expenses incurred or paid by a director, officer or controlling person of the Registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the Registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Securities Act and will be governed by the final adjudication of such issue.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the Registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-8 and has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in Durham, North Carolina, on the 15th day of August, 2016.

HEAT BIOLOGICS, INC.

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

POWER OF ATTORNEY AND SIGNATURES

Each of the undersigned, whose signature appears below, hereby constitutes and appoints Jeffrey Wolf as his or her true and lawful attorney-in-fact and agent, with full power of substitution and resubstitution for him or her and in his or her name, place and stead, in any and all capacities, to sign any or all amendments to this Registration Statement, whether pre-effective or post-effective, and to file the same with all exhibits thereto and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorney-in-fact and agent, or his substitute, full power and authority to do and perform each and every act and thing necessary or appropriate to be done with respect to this Registration Statement or any amendments hereto in the premises, as fully to all intents and purposes as he or she might or could do in person, hereby ratifying and confirming all that said attorney-in-fact and agent, or his substitute may lawfully do or cause to be done by virtue thereof.

Pursuant to the requirements of the Securities Act of 1933, as amended, this registration statement has been signed by the following persons in the capacities and on the dates indicated.

<u>Signature</u>	<u>Title</u>	<u>Date</u>
<u>/s/ Jeffrey Wolf</u> Jeffrey Wolf	Chief Executive Officer (Principal Executive Officer) and Director	August 15, 2016
<u>/s/ Ann Rosar</u> Ann Rosar	Vice President of Finance (Principal Financial and Accounting Officer)	August 15, 2016
<u>/s/ John K. A. Prendergast, Ph.D.</u> John K. A. Prendergast, Ph.D.	Director	August 15, 2016
<u>/s/ John Monahan, Ph.D.</u> John Monahan, Ph.D.	Director	August 15, 2016
<u>/s/ Edward B. Smith, III</u> Edward B. Smith, III	Director	August 15, 2016

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<hr/>	
(1)	Incorporated by reference to the Registrant's Form S-1 filed with the Securities and Exchange Commission on May 6, 2013.
(2)	Incorporated by reference to the Registrant's Form S-1 filed with the Securities and Exchange Commission on May 30, 2013.
(3)	Incorporated by reference to the Registrant's Form 8-K filed with the Securities and Exchange Commission on January 15, 2016.
(4)	Filed herewith.

HEAT BIOLOGICS, INC.

AMENDED AND RESTATED 2014 STOCK INCENTIVE PLAN

1. Establishment and Purpose.

The purpose of the Heat Biologics, Inc. 2014 Amended and Restated Stock Incentive Plan (the “Plan”) is to promote the interests of the Company and the stockholders of the Company by providing directors, officers, employees and consultants of the Company with appropriate incentives and rewards to encourage them to enter into and continue in the employ or service of the Company, to acquire a proprietary interest in the long-term success of the Company and to reward the performance of individuals in fulfilling long-term corporate objectives.

2. Administration of the Plan.

The Plan shall be administered by a Committee appointed by the Board of Directors. The Committee shall have the authority, in its sole discretion, subject to and not inconsistent with the express terms and provisions of the Plan, to administer the Plan and to exercise all the powers and authorities either specifically granted to it under the Plan or necessary or advisable in the administration of the Plan, including, without limitation, the authority to grant Awards; to determine the persons to whom and the time or times at which Awards shall be granted; to determine the type and number of Awards to be granted (including whether an Option granted is an Incentive Stock Option or a Nonqualified Stock Option); to determine the number of shares of stock to which an Award may relate and the terms, conditions, restrictions and performance criteria, if any, relating to any Award; to determine whether, to what extent, and under what circumstances an Award may be settled, cancelled, forfeited, exchanged or surrendered; to make adjustments in the performance goals that may be required for any award in recognition of unusual or nonrecurring events affecting the Company or the financial statements of the Company (to the extent not inconsistent with Section 162(m) of the Code, if applicable), or in response to changes in applicable laws, regulations, or accounting principles; to construe and interpret the Plan and any Award; to prescribe, amend and rescind rules and regulations relating to the Plan; to determine the terms and provisions of Agreements; and to make all other determinations deemed necessary or advisable for the administration of the Plan.

The Committee may, in its absolute discretion, without amendment to the Plan, (a) accelerate the date on which any Option granted under the Plan becomes exercisable, waive or amend the operation of Plan provisions respecting exercise after termination of employment or otherwise adjust any of the terms of such Option, and (b) accelerate the vesting date, or waive any condition imposed hereunder, with respect to any share of Restricted Stock, or other Award or otherwise adjust any of the terms applicable to any such Award. Notwithstanding the foregoing, and subject to Sections 4(c) and 4(d), neither the Board of Directors, the Committee nor their respective delegates shall have the authority to re-price (or cancel and/or re-grant) any Option, Stock Appreciation Right or, if applicable, other Award at a lower exercise, base or purchase price without first obtaining the approval of the Company’s stockholders.

Subject to Section 162(m) of the Code and except as required by Rule 16b-3 with respect to grants of Awards to individuals who are subject to Section 16 of the Exchange Act, or as otherwise required for compliance with Rule 16b-3 or other applicable law, the Committee may delegate all or any part of its authority under the Plan to an employee, employees or committee of employees.

Subject to Section 162(m) of the Code and Section 16 of the Exchange Act, to the extent the Committee deems it necessary, appropriate or desirable to comply with foreign law or practices and to further the purpose of the Plan, the Committee may, without amending this Plan, establish special rules applicable to Awards granted to Participants who are foreign nationals, are employed outside the United States, or both, including rules that differ from those set forth in the Plan, and grant Awards to such Participants in accordance with those rules.

All decisions, determinations and interpretations of the Committee or the Board of Directors shall be final and binding on all persons with any interest in an Award, including the Company and the Participant (or any person claiming any rights under the Plan from or through any Participant). No member of the Committee or the Board of Directors shall be liable for any action taken or determination made in good faith with respect to the Plan or any Award.

3. Definitions.

(a) “Agreement” shall mean the written agreement between the Company and a Participant evidencing an Award.

(b) "Annual Incentive Award" shall mean an Award described in Section 6(g) hereof that is based upon a period of one year or less.

(c) "Award" shall mean any Option, Restricted Stock, Stock Bonus Award, Stock Appreciation Right, Performance Award, Other Stock-Based Award or Other Cash-Based Award granted pursuant to the terms of the Plan.

(d) "Board of Directors" shall mean the Board of Directors of the Company.

(e) "Cause" shall mean a termination of a Participant's employment by the Company or any of its Subsidiaries due to (i) the continued failure, after written notice, by such Participant substantially to perform his or her duties with the Company or any of its Subsidiaries (other than any such failure resulting from incapacity due to reasonably documented physical illness or injury or mental illness), (ii) the engagement by such Participant in serious misconduct that causes, or in the good faith judgment of the Board of Directors may cause, harm (financial or otherwise) to the Company or any of its Subsidiaries including, without limitation, the disclosure of material secret or confidential information of the Company or any of its Subsidiaries, or (iii) the material breach by the Participant of any agreement between such Participant, on the one hand, and the Company, on the other hand. Notwithstanding the above, with respect to any Participant who is a party to an employment agreement with the Company, Cause shall have the meaning set forth in such employment agreement.

(f) A "Change in Control" shall be deemed to have occurred if the event set forth in any one of the following paragraphs shall have occurred:

(i) any Person is or becomes the "Beneficial Owner" (as defined in Rule 13d-3 under the Exchange Act), directly or indirectly, of securities of the Company (not including in the securities Beneficially Owned by such Person any securities acquired directly from the Company) representing 30% or more of the Company's then outstanding securities, excluding any Person who becomes such a Beneficial Owner in connection with a transaction described in clause (A) of paragraph (iii) below; or

(ii) the following individuals cease for any reason to constitute a majority of the number of directors then serving: individuals who, on the Effective Date, constitute the Board of Directors and any new director (other than a director whose initial assumption of office is in connection with an actual or threatened election contest, including but not limited to a consent solicitation, relating to the election of directors of the Company) whose appointment or election by the Board of Directors or nomination for election by the Company's stockholders was approved or recommended by a vote of at least two-thirds of the directors then still in office who either were directors on the Effective Date or whose appointment, election or nomination for election was previously so approved or recommended; or

(iii) there is consummated a merger or consolidation of the Company with any other corporation other than (A) a merger or consolidation which would result in the voting securities of the Company outstanding immediately prior to such merger or consolidation continuing to represent (either by remaining outstanding or by being converted into voting securities of the surviving entity or any parent thereof) at least 50% of the combined voting power of the voting securities of the Company or such surviving entity or any parent thereof outstanding immediately after such merger or consolidation, or (B) a merger or consolidation effected to implement a re-capitalization of the Company (or similar transaction) in which no Person is or becomes the Beneficial Owner, directly or indirectly, of securities of the Company (not including in the securities Beneficially Owned by such Person any securities acquired directly from the Company) representing 30% or more of the combined voting power of the Company's then outstanding securities; or

(iv) the stockholders of the Company approve a plan of complete liquidation or dissolution of the Company or there is consummated an agreement for the sale or disposition by the Company of all or substantially all of the Company's assets, other than a sale or disposition by the Company of all or substantially all of the Company's assets to an entity at least 75% of the combined voting power of the voting securities of which are owned by Persons in substantially the same proportions as their ownership of the Company immediately prior to such sale.

(g) "Code" shall mean the Internal Revenue Code of 1986, as amended from time to time, and any regulations promulgated thereunder. References in the Plan to specific sections of the Code shall be deemed to include any successor provisions thereto.

(h) "Committee" shall mean, at the discretion of the Board of Directors, a Committee of the Board of Directors, which shall consist of two or more persons, each of whom, unless otherwise determined by the Board of Directors, is an

“outside director” within the meaning of Section 162(m) of the Code and a “nonemployee director” within the meaning of Rule 16b-3.

- (i) “Company” shall mean Heat Biologics, Inc., a Delaware corporation, and, where appropriate, each of its Subsidiaries.
- (j) “Company Stock” shall mean the common stock of the Company, par value \$0.0002 per share.
- (k) “Disability” shall mean permanent disability as determined pursuant to the Company’s long-term disability plan or policy, in effect at the time of such disability.
- (l) “Effective Date” shall mean the date as of which this Plan is adopted by the Board of Directors.
- (m) “Exchange Act” shall mean the Securities Exchange Act of 1934, as amended from time to time.

(n) The “Fair Market Value” of a share of Company Stock, as of a date of determination, shall mean (1) the closing sales price per share of Company Stock on the national securities exchange on which such stock is principally traded on the date of the grant of such Award, or (2) if the shares of Company Stock are not listed or admitted to trading on any such exchange, the closing price as reported by the Nasdaq Stock Market for the last preceding date on which there was a sale of such stock on such exchange, or (3) if the shares of Company Stock are not then listed on a national securities exchange or traded in an over-the-counter market or the value of such shares is not otherwise determinable, such value as determined by the Committee in good faith upon the advice of a qualified valuation expert. In no event shall the fair market value of any share of Company Stock, the Option exercise price of any Option, the appreciation base per share of Company Stock under any Stock Appreciation Right, or the amount payable per share of Company Stock under any other Award, be less than the par value per share of Company Stock.

(o) “Full Value Award” means any Award, other than an Option or a Stock Appreciation Right, which Award is settled in Stock.

(p) “Incentive Stock Option” shall mean an Option that is an “incentive stock option” within the meaning of Section 422 of the Code, or any successor provision, and that is designated by the Committee as an Incentive Stock Option.

(q) “Long Term Incentive Award” shall mean an Award described in Section 6(g) hereof that is based upon a period in excess of one year.

(r) “Nonemployee Director” shall mean a member of the Board of Directors who is not an employee of the Company.

(s) “Nonqualified Stock Option” shall mean an Option other than an Incentive Stock Option.

(t) “Option” shall mean an option to purchase shares of Company Stock granted pursuant to Section 6(b).

(u) “Other Cash-Based Award” shall mean a right or other interest granted to a Participant pursuant to Section 6(g) hereof other than an Other Stock-Based Award.

(v) “Other Stock-Based Award” shall mean a right or other interest granted to a Participant, valued in whole or in part by reference to, or otherwise based on, or related to, Company Stock pursuant to Section 6(g) hereof, including but not limited to (i) unrestricted Company Stock awarded as a bonus or upon the attainment of performance goals or otherwise as permitted under the Plan, and (ii) a right granted to a Participant to acquire Company Stock from the Company containing terms and conditions prescribed by the Committee.

(w) “Participant” shall mean an employee, consultant or director of the Company to whom an Award is granted pursuant to the Plan, and, upon the death of the employee, consultant or director, his or her successors, heirs, executors and administrators, as the case may be.

(x) “Performance Award” shall mean an Award granted to a Participant pursuant to Section 6(f) hereof.

(y) “Person” shall have the meaning set forth in Section 3(a)(9) of the Exchange Act, except that such term shall not include (1) the Company, (2) a trustee or other fiduciary holding securities under an employee benefit plan of the Company,

(3) an underwriter temporarily holding securities pursuant to an offering of such securities, or (4) a corporation owned, directly or indirectly, by the stockholders of the Company in substantially the same proportions as their ownership of stock of the Company.

(z) "Restricted Stock" shall mean a share of Company Stock which is granted pursuant to the terms of Section 6(e) hereof.

(aa) "Retirement" shall mean, in the case of employees, the termination of employment with the Company (other than for Cause) during or after the calendar year in which a Participant has or will reach (i) age 55 with ten years of service with the Company, or (ii) age 60 with five years of service with the Company. "Retirement" shall mean, in the case of directors, the termination of service with the Company (other than for Cause) during or after the calendar year in which a Participant has or will reach age 75 with five years of service with the Company.

(bb) "Rule 16b-3" shall mean the Rule 16b-3 promulgated under the Exchange Act, as amended from time to time.

(cc) "Securities Act" shall mean the Securities Act of 1933, as amended from time to time.

(dd) "Stock Appreciation Right" shall mean the right, granted to a Participant under Section 6(d), to be paid an amount measured by the appreciation in the Fair Market Value of a share of Company Stock from the date of grant to the date of exercise of the right, with payment to be made in cash and/or a share of Company Stock, as specified in the Award or determined by the Committee.

(ee) "Stock Bonus" shall mean a bonus payable in shares of Company Stock granted pursuant to Section 6(e) hereof.

(ff) "Subsidiary" shall mean a "subsidiary corporation" within the meaning of Section 424(f) of the Code.

4. Stock Subject to the Plan.

(a) Shares Available for Awards. The maximum number of shares of Company Stock reserved for issuance under the Plan (all of which may be granted as Incentive Stock Options) shall be Three Million (3,000,000) shares. Notwithstanding the foregoing, of the Three Million (3,000,000) shares originally reserved for issuance under this Plan, no more than seven hundred fifty thousand (750,000) of such shares shall be issued as Full Value Awards. Shares reserved under the Plan may be authorized but unissued Company Stock or authorized and issued Company Stock held in the Company's treasury. The Committee may direct that any stock certificate evidencing shares issued pursuant to the Plan shall bear a legend setting forth such restrictions on transferability as may apply to such shares pursuant to the Plan.

(b) Individual Limitation. To the extent required by Section 162(m) of the Code, the total number of shares of Company Stock subject to Awards awarded to any one Participant during any tax year of the Company, shall not exceed two hundred fifty thousand (250,000) shares (subject to adjustment as provided herein).

(c) Adjustment for Change in Capitalization. In the event that the Committee shall determine that any dividend or other distribution (whether in the form of cash, Company Stock, or other property), recapitalization, Company Stock split, reverse Company Stock split, reorganization, merger, consolidation, spin-off, combination, repurchase, or share exchange, or other similar corporate transaction or event has occurred, then the Committee shall make such equitable changes or adjustments as it deems necessary or appropriate to any or all of (1) the number and kind of shares of Company Stock which may thereafter be issued in connection with Awards, (2) the number and kind of shares of Company Stock, securities or other property (including cash) issued or issuable in respect of outstanding Awards, (3) the exercise price, grant price or purchase price relating to any Award, and (4) the maximum number of shares subject to Awards which may be awarded to any employee during any tax year of the Company; provided that, with respect to Incentive Stock Options, any such adjustment shall be made in accordance with Section 424 of the Code; and provided further that, no such adjustment shall cause any Award hereunder which is or could be subject to Section 409A of the Code to fail to comply with the requirements of such section.

(d) Reuse of Shares. Except as set forth below, if any shares subject to an Award are forfeited, cancelled, exchanged or surrendered, or if an Award terminates or expires without a distribution of shares to the Participant, the shares of stock with respect to such Award shall, to the extent of any such forfeiture, cancellation, exchange, surrender, withholding, termination or expiration, again be available for Awards under the Plan. Notwithstanding the foregoing, upon the exercise of any Award granted in tandem with any other Awards, such related Awards shall be cancelled to the extent of the number of shares of Company Stock as to which the Award is exercised and such number of shares shall no longer be available for

Awards under the Plan. In addition, notwithstanding the forgoing, the shares of stock surrendered or withheld as payment of either the exercise price of an Option (including shares of stock otherwise underlying an Award of a Stock Appreciation Right that are retained by the Company to account for the appreciation base of such Stock Appreciation Right) and/or withholding taxes in respect of an Award shall no longer be available for Awards under the Plan.

5. Eligibility.

The persons who shall be eligible to receive Awards pursuant to the Plan shall be the individuals the Committee shall select from time to time, who are employees (including officers of the Company and its Subsidiaries, whether or not they are directors of the Company or its Subsidiaries), Nonemployee Directors, and consultants of the Company and its Subsidiaries; provided, that Incentive Stock Options shall be granted only to employees (including officers and directors who are also employees) of the Company or its Subsidiaries.

6. Awards Under the Plan

(a) Agreement. The Committee may grant Awards in such amounts and with such terms and conditions as the Committee shall determine in its sole discretion, subject to the terms and provisions of the Plan. Each Award granted under the Plan (except an unconditional Stock Bonus) shall be evidenced by an Agreement as the Committee may in its sole discretion deem necessary or desirable and unless the Committee determines otherwise, such Agreement must be signed, acknowledged and returned by the Participant to the Company. Unless the Committee determines otherwise, any failure by the Participant to sign and return the Agreement within such period of time following the granting of the Award as the Committee shall prescribe shall cause such Award to the Participant to be null and void. By accepting an Award or other benefits under the Plan (including participation in the Plan), each Participant, shall be conclusively deemed to have indicated acceptance and ratification of, and consent to, all provisions of the Plan and the Agreement.

(b) Stock Options.

(i) Grant of Stock Options. The Committee may grant Options under the Plan to purchase shares of Company Stock in such amounts and subject to such terms and conditions as the Committee shall from time to time determine in its sole discretion, subject to the terms and provisions of the Plan. The exercise price of the share purchasable under an Option shall be determined by the Committee, but in no event shall the exercise price be less than the Fair Market Value per share on the grant date of such Option. The date as of which the Committee adopts a resolution granting an Option shall be considered the day on which such Option is granted unless such resolution specifies a later date.

(ii) Identification. Each Option shall be clearly identified in the applicable Agreement as either an Incentive Stock Option or a Nonqualified Stock Option and shall state the number of shares of Company Stock to which the Option (and/or each type of Option) relates.

(c) Special Requirements for Incentive Stock Options.

(i) To the extent that the aggregate Fair Market Value of shares of Company Stock with respect to which Incentive Stock Options are exercisable for the first time by a Participant during any calendar year under the Plan and any other stock option plan of the Company shall exceed \$100,000, such Options shall be treated as Nonqualified Stock Options. Such Fair Market Value shall be determined as of the date on which each such Incentive Stock Option is granted.

(ii) No Incentive Stock Option may be granted to an individual if, at the time of the proposed grant, such individual owns (or is deemed to own under the Code) stock possessing more than 10% of the total combined voting power of all classes of stock of the Company unless (A) the exercise price of such Incentive Stock Option is at least 110% of the Fair Market Value of a share of Company Stock at the time such Incentive Stock Option is granted and (B) such Incentive Stock Option is not exercisable after the expiration of five years from the date such Incentive Stock Option is granted.

(d) Stock Appreciation Rights.

(i) The Committee may grant a related Stock Appreciation Right in connection with all or any part of an Option granted under the Plan, either at the time such Option is granted or at any time thereafter prior to the exercise, termination or cancellation of such Option, and subject to such terms and conditions as the Committee shall from time to time determine in its sole discretion, consistent with the terms and provisions of the Plan, provided, however, that in no event shall the appreciation base of the shares of Company Stock subject to the Stock Appreciation Right be less than the Fair Market Value per share on the grant date of such Stock Appreciation Right. The holder of a related Stock Appreciation Right shall,

subject to the terms and conditions of the Plan and the applicable Agreement, have the right by exercise thereof to surrender to the Company for cancellation all or a portion of such related Stock Appreciation Right, but only to the extent that the related Option is then exercisable, and to be paid therefor an amount equal to the excess (if any) of (i) the aggregate Fair Market Value of the shares of Company Stock subject to the related Stock Appreciation Right or portion thereof surrendered (determined as of the exercise date), over (ii) the aggregate appreciation base of the shares of Company Stock subject to the Stock Appreciation Right or portion thereof surrendered. Upon any exercise of a related Stock Appreciation Right or any portion thereof, the number of shares of Company Stock subject to the related Option shall be reduced by the number of shares of Company Stock in respect of which such Stock Appreciation Right shall have been exercised.

(ii) The Committee may grant unrelated Stock Appreciation Rights in such amount and subject to such terms and conditions, as the Committee shall from time to time determine in its sole discretion, subject to the terms and provisions of the Plan, provided, however, that in no event shall the appreciation base of the shares of Company Stock subject to the Stock Appreciation Right be less than the Fair Market Value per share on the grant date of such Stock Appreciation Right. The holder of an unrelated Stock Appreciation Right shall, subject to the terms and conditions of the Plan and the applicable Agreement, have the right to surrender to the Company for cancellation all or a portion of such Stock Appreciation Right, but only to the extent that such Stock Appreciation Right is then exercisable, and to be paid therefor an amount equal to the excess (if any) of (x) the aggregate Fair Market Value of the shares of Company Stock subject to the Stock Appreciation Right or portion thereof surrendered (determined as of the exercise date), over (y) the aggregate appreciation base of the shares of Company Stock subject to the Stock Appreciation Right or portion thereof surrendered.

(iii) The grant or exercisability of any Stock Appreciation Right shall be subject to such conditions as the Committee, in its sole discretion, shall determine.

(c) Restricted Stock and Stock Bonus.

(i) The Committee may grant Restricted Stock awards, alone or in tandem with other Awards under the Plan, subject to such restrictions, terms and conditions, as the Committee shall determine in its sole discretion and as shall be evidenced by the applicable Agreements. The vesting of a Restricted Stock award granted under the Plan may be conditioned upon the completion of a specified period of employment or service with the Company or any Subsidiary, upon the attainment of specified performance goals, and/or upon such other criteria as the Committee may determine in its sole discretion.

(ii) Each Agreement with respect to a Restricted Stock award shall set forth the amount (if any) to be paid by the Participant with respect to such Award and when and under what circumstances such payment is required to be made.

(iii) The Committee may, upon such terms and conditions as the Committee determines in its sole discretion, provide that a certificate or certificates representing the shares underlying a Restricted Stock award shall be registered in the Participant's name and bear an appropriate legend specifying that such shares are not transferable and are subject to the provisions of the Plan and the restrictions, terms and conditions set forth in the applicable Agreement, or that such certificate or certificates shall be held in escrow by the Company on behalf of the Participant until such shares become vested or are forfeited. Except as provided in the applicable Agreement, no shares underlying a Restricted Stock award may be assigned, transferred, or otherwise encumbered or disposed of by the Participant until such shares have vested in accordance with the terms of such Award.

(iv) If and to the extent that the applicable Agreement may so provide, a Participant shall have the right to vote and receive dividends on the shares underlying a Restricted Stock award granted under the Plan. Unless otherwise provided in the applicable Agreement, any stock received as a dividend on or in connection with a stock split of the shares underlying a Restricted Stock award shall be subject to the same restrictions as the shares underlying such Restricted Stock award.

(v) The Committee may grant Stock Bonus awards, alone or in tandem with other Awards under the Plan, subject to such terms and conditions as the Committee shall determine in its sole discretion and as may be evidenced by the applicable Agreement.

(f) Performance Awards.

(i) The Committee may grant Performance Awards, alone or in tandem with other Awards under the Plan, to acquire shares of Company Stock in such amounts and subject to such terms and conditions as the Committee shall from time to time in its sole discretion determine, subject to the terms of the Plan. To the extent necessary to satisfy the short-term

deferral exception to Section 409A of the Code, unless the Committee shall determine otherwise, the Performance Awards shall provide that payment shall be made within 2 1/2 months after the end of the year in which the Participant has a legally binding vested right to such award.

(ii) In the event that the Committee grants a Performance Award or other Award (other than Nonqualified Stock Option or Incentive Stock Option or a Stock Appreciation Right) that is intended to constitute qualified performance-based compensation within the meaning Section 162(m) of the Code, the following rules shall apply (as such rules may be modified by the Committee to conform with Section 162(m) of the Code and the Treasury Regulations thereunder as may be in effect from time to time, and any amendments, revisions or successor provisions thereto): (a) payments under the Performance Award shall be made solely on account of the attainment of one or more objective performance goals established in writing by the Committee not later than 90 days after the commencement of the period of service to which the Performance Award relates (but in no event after 25% of the period of service has elapsed); (b) the performance goal(s) to which the Performance Award relates shall be based on one or more of the following business criteria applied to the Participant and/or a business unit or the Company and/or a Subsidiary: (1) scientific progress, (2) product development progress, (3) business development progress, including in-licensing, (4) sales, (5) sales growth, (6) earnings growth, (7) cash flow or cash position, (8) gross margins, (9) stock price, (10) financings (issuance of debt or equity), (11) market share, (12) total shareholder return, (13) net revenues, (14) earnings per share of Company Stock; (15) net income (before or after taxes), (16) return on assets, (17) return on sales, (18) return on assets, (19) equity or investment, (20) improvement of financial ratings, (21) achievement of balance sheet or income statement objectives or (22) total stockholder return. (23) earnings from continuing operations; levels of expense, cost or liability, (24) earnings before all or any interest, taxes, depreciation and/or amortization ("EBIT", "EBITA" or "EBITDA"), (25) cost reduction goals, (26) business development goals (including without limitation regulatory submissions, product launches and other business development-related opportunities), (27) identification or consummation of investment opportunities or completion of specified projects in accordance with corporate business plans, including strategic mergers, acquisitions or divestitures, (28) meeting specified market penetration or value added goals, (29) development of new technologies (including patent application or issuance goals), (30) any combination of, or a specified increase or decrease of one or more of the foregoing over a specified period, and (31) such other criteria as the stockholders of the Company may approve; in each case as applicable, as determined in accordance with generally accepted accounting principles; and (c) once granted, the Committee may not have discretion to increase the amount payable under such Award, provided, however, that whether or not an Award is intended to constitute qualified performance-based compensation within the meaning of Section 162(m) of the Code, the Committee, to the extent provided by the Committee at the time the Award is granted or as otherwise permitted under Section 162(m) of the Code, shall have the authority to make appropriate adjustments in performance goals under an Award to reflect the impact of extraordinary items not reflected in such goals. For purposes of the Plan, extraordinary items shall be defined as (1) any profit or loss attributable to acquisitions or dispositions of stock or assets, (2) any changes in accounting standards that may be required or permitted by the Financial Accounting Standards Board or adopted by the Company after the goal is established, (3) all items of gain, loss or expense for the year related to restructuring charges for the Company, (4) all items of gain, loss or expense for the year determined to be extraordinary or unusual in nature or infrequent in occurrence or related to the disposal of a segment of a business, (5) all items of gain, loss or expense for the year related to discontinued operations that do not qualify as a segment of a business as defined in APB Opinion No. 30, and (6) such other items as may be prescribed by Section 162(m) of the Code and the Treasury Regulations thereunder as may be in effect from time to time, and any amendments, revisions or successor provisions and any changes thereto. The Committee shall, prior to making payment under any award under this Section 6(f), certify in writing that all applicable performance goals have been attained. Notwithstanding anything to the contrary contained in the Plan or in any applicable Agreement, no dividends or dividend equivalents will be paid with respect to unvested Performance Awards.

(g) Other Stock- or Cash-Based Awards.

(i) The Committee is authorized to grant Awards to Participants in the form of Other Stock-Based Awards or Other Cash-Based Awards, as deemed by the Committee to be consistent with the purposes of the Plan. To the extent necessary to satisfy the short-term deferral exception to Section 409A of the Code, unless the Committee shall determine otherwise, the awards shall provide that payment shall be made within 2½ months after the end of the year in which the Participant has a legally binding vested right to such award. With respect to Other Cash-Based Awards intended to qualify as performance based compensation under Section 162(m) of the Code, (i) the maximum value of the aggregate payment that any Participant may receive with respect to any such Other Cash-Based Award that is an Annual Incentive Award is \$3,000,000, (ii) the maximum value of the aggregate payment that any Participant may receive with respect to any such Other Cash-Based Award that is a Long Term Incentive Award is the amount set forth in clause (i) above multiplied by a fraction, the numerator of which is the number of months in the performance period and the denominator of which is twelve, and (iii) such additional rules set forth in Section 6(f) applicable to Awards intended to qualify as performance-based

compensation under Section 162(m) shall apply. The Committee may establish such other rules applicable to the Other Stock- or Cash-Based Awards to the extent not inconsistent with Section 162(m) of the Code.

(h) Exercisability of Awards; Cancellation of Awards in Certain Cases.

(i) Except as hereinafter provided, each Agreement with respect to an Option or Stock Appreciation Right shall set forth the period during which and the conditions subject to which the Option or Stock Appreciation Right evidenced thereby shall be exercisable, and each Agreement with respect to a Restricted Stock award, Stock Bonus award, Performance Award or other Award shall set forth the period after which and the conditions subject to which amounts underlying such Award shall vest or be deliverable, all such periods and conditions to be determined by the Committee in its sole discretion.

(ii) Except as provided in Section 7(d) hereof, no Option or Stock Appreciation Right may be exercised and no shares of Company Stock underlying any other Award under the Plan may vest or become deliverable more than ten years after the date of grant (the "Stated Expiration Date").

(iii) Except as provided in Section 7 hereof, no Option or Stock Appreciation Right may be exercised and no shares of Common Stock underlying any other Award under the Plan may vest or become deliverable unless the Participant is at such time in the employ (for Participants who are employees) or service (for Participants who are Nonemployee Directors or consultants) of the Company or a Subsidiary (or a company, or a parent or subsidiary company of such company, issuing or assuming the relevant right or award in a Change in Control) and has remained continuously so employed or in service since the relevant date of grant of the Award.

(iv) An Option or Stock Appreciation Right shall be exercisable by the filing of a written notice of exercise or a notice of exercise in such other manner with the Company, on such form and in such manner as the Committee shall in its sole discretion prescribe, and by payment in accordance with Section 6(i) hereof.

(v) Unless the applicable Agreement provides otherwise, the "Option exercise date" and the "Stock Appreciation Right exercise date" shall be the date that the written notice of exercise, together with payment, are received by the Company.

(i) Payment of Award Price.

(i) Unless the applicable Agreement provides otherwise or the Committee in its sole discretion otherwise determines, any written notice of exercise of an Option or Stock Appreciation Right must be accompanied by payment of the full Option or Stock Appreciation Right exercise price.

(ii) Payment of the Option exercise price and of any other payment required by the Agreement to be made pursuant to any other Award shall be made in any combination of the following: (a) by certified or official bank check payable to the Company (or the equivalent thereof acceptable to the Committee), (b) with the consent of the Committee in its sole discretion, by personal check (subject to collection) which may in the Committee's discretion be deemed conditional, (c) unless otherwise provided in the applicable Agreement, and as permitted by the Committee, by delivery of previously-acquired shares of Common Stock owned by the Participant having a Fair Market Value (determined as of the Option exercise date, in the case of Options, or other relevant payment date as determined by the Committee, in the case of other Awards) equal to the portion of the exercise price being paid thereby; and/or (d) unless otherwise provided in applicable agreement, and as permitted by the Committee, on a net-settlement basis with the Company withholding the amount of Common Stock sufficient to cover the exercise price and tax withholding obligation. Payment in accordance with clause (a) of this Section 6(i)(ii) may be deemed to be satisfied, if and to the extent that the applicable Agreement so provides or the Committee permits, by delivery to the Company of an assignment of a sufficient amount of the proceeds from the sale of Company Stock to be acquired pursuant to the Award to pay for all of the Company Stock to be acquired pursuant to the Award and an authorization to the broker or selling agent to pay that amount to the Company and to effect such sale at the time of exercise or other delivery of shares of Company Stock.

7. Termination of Employment.

(a) Unless the applicable Agreement provides otherwise or the Committee in its sole discretion determines otherwise, upon termination of a Participant's employment or service with the Company and its Subsidiaries by the Company or its Subsidiary for Cause (or in the case of a Nonemployee Director upon such Nonemployee Director's failure to be renominated as Nonemployee Director of the Company), the portions of outstanding Options and Stock Appreciation Rights granted to such Participant that are exercisable as of the date of such termination of employment or service shall remain

exercisable, and any payment or notice provided for under the terms of any other outstanding Award as respects the portion thereof that is vested as of the date of such termination of employment or service, may be given, for a period of thirty (30) days from and including the date of termination of employment or service (and shall thereafter terminate). All portions of outstanding Options or Stock Appreciation Rights granted to such Participant which are not exercisable as of the date of such termination of employment or service, and any other outstanding Award which is not vested as of the date of such termination of employment or service shall terminate upon the date of such termination of employment or service.

(b) Unless the applicable Agreement provides otherwise or the Committee in its sole discretion determines otherwise, upon termination of the Participant's employment or service with the Company and its Subsidiaries for any reason other than as described in subsection (a), (c), (d) or (e) hereof, the portions of outstanding Options and Stock Appreciation Rights granted to such Participant that are exercisable as of the date of such termination of employment or service shall remain exercisable for a period of ninety (90) days (and shall terminate thereafter), and any payment or notice provided for under the terms of any other outstanding Award as respects the portion thereof vested as of the date of termination of employment or service may be given, for a period of ninety (90) days from and including the date of termination of employment or service (and shall terminate thereafter). All additional portions of outstanding Options or Stock Appreciation Rights granted to such Participant which are not exercisable as of the date of such termination of employment or service, and any other outstanding Award which is not vested as of the date of such termination of employment or service shall terminate upon the date of such termination of employment or service.

(c) Unless the applicable Agreement provides otherwise or the Committee in its sole discretion determines otherwise, if the Participant voluntarily Retires with the consent of the Company or the Participant's employment or service terminates due to Disability, all outstanding Options, Stock Appreciation Rights and all other outstanding Awards (except, in the event a Participant voluntarily Retires, with respect to Awards (other than Options and Stock Appreciation Rights) intended to qualify as performance-based compensation within the meaning of Section 162(m) of the Code) granted to such Participant shall continue to vest in accordance with the terms of the applicable Agreements. The Participant shall be entitled to exercise each such Option or Stock Appreciation Right and to make any payment, give any notice or to satisfy other condition under each such other Award, in each case, for a period of one year from and including the later of (i) date such entire Award becomes vested or exercisable in accordance with the terms of such Award and (ii) the date of Retirement, and thereafter such Awards or parts thereof shall be canceled. Notwithstanding the foregoing, the Committee may in its sole discretion provide for a longer or shorter period for exercise of an Option or Stock Appreciation Right or may permit a Participant to continue vesting under an Option, Stock Appreciation Right or Restricted Stock award or to make any payment, give any notice or to satisfy other condition under any other Award. The Committee may in its sole discretion, and in accordance with Section 409A of the Code, determine (i) for purposes of the Plan, whether any termination of employment or service is a voluntary Retirement with the Company's consent or is due to Disability for purposes of the Plan, (ii) whether any leave of absence (including any short-term or long-term Disability or medical leave) constitutes a termination of employment or service, or a failure to have remained continuously employed or in service, for purposes of the Plan (regardless of whether such leave or status would constitute such a termination or failure for purposes of employment law), (iii) the applicable date of any such termination of employment or service, and (iv) the impact, if any, of any of the foregoing on Awards under the Plan.

(d) Unless the applicable Agreement provides otherwise or the Committee in its sole discretion determines otherwise, if the Participant's employment or service terminates by reason of death, or if the Participant's employment or service terminates under circumstances providing for continued rights under subsection (b), (c) or (e) of this Section 7 and during the period of continued rights described in subsection (b), (c) or (e) the Participant dies, all outstanding Options, Restricted Stock and Stock Appreciation Rights granted to such Participant shall vest and become fully exercisable, and any payment or notice provided for under the terms of any other outstanding Award may be immediately paid or given and any condition may be satisfied, by the person to whom such rights have passed under the Participant's will (or if applicable, pursuant to the laws of descent and distribution) for a period of one year from and including the date of the Participant's death and thereafter all such Awards or parts thereof shall be canceled.

(e) Unless the applicable Agreement provides otherwise or the Committee in its sole discretion determines otherwise, upon termination of a Participant's employment or service with the Company and its Subsidiaries (i) by the Company or its Subsidiaries without Cause (including, in case of a Nonemployee Director, the failure to be elected as a Nonemployee Director) or (ii) by the Participant for "good reason" or any like term as defined under any employment agreement with the Company or a Subsidiary to which a Participant may be a party to, the portions of outstanding Options and Stock Appreciation Rights granted to such Participant which are exercisable as of the date of termination of employment or service of such Participant shall remain exercisable, and any payment or notice provided for under the terms of any other outstanding Award as respects the portion thereof vested as of the date of termination of employment or service may be given, for a period of one year from and including the date of termination of employment or service and shall terminate

thereafter. Unless the applicable Agreement provides otherwise or the Committee in its sole discretion determines otherwise, any other outstanding Award shall terminate as of the date of such termination of employment or service.

(f) Notwithstanding anything in this Section 7 to the contrary, no Option or Stock Appreciation Right may be exercised and no shares of Company Stock underlying any other Award under the Plan may vest or become deliverable past the Stated Expiration Date.

8. Effect of Change in Control.

Unless otherwise determined in an Award Agreement, in the event of a Change in Control:

(a) With respect to each outstanding Award that is assumed or substituted in connection with a Change in Control, in the event of a termination of a Participant's employment or service by the Company without Cause during the 24-month period following such Change in Control, on the date of such termination (i) such Award shall become fully vested and, if applicable, exercisable, (ii) the restrictions, payment conditions, and forfeiture conditions applicable to any such Award granted shall lapse, and (iii) any performance conditions imposed with respect to Awards shall be deemed to be fully achieved at target levels.

(b) With respect to each outstanding Award that is not assumed or substituted in connection with a Change in Control, immediately upon the occurrence of the Change in Control, (i) such Award shall become fully vested and, if applicable, exercisable, (ii) the restrictions, payment conditions, and forfeiture conditions applicable to any such Award granted shall lapse, and (iii) any performance conditions imposed with respect to Awards shall be deemed to be fully achieved at target levels.

(c) For purposes of this Section 8, an Award shall be considered assumed or substituted for if, following the Change in Control, the Award remains subject to the same terms and conditions that were applicable to the Award immediately prior to the Change in Control except that, if the Award related to Shares, the Award instead confers the right to receive Common Stock of the acquiring entity.

(d) Notwithstanding any other provision of the Plan: (i) in the event of a Change in Control, except as would otherwise result in adverse tax consequences under Section 409A of the Code, the Board may, in its sole discretion, provide that each Award shall, immediately upon the occurrence of a Change in Control, be cancelled in exchange for a payment in cash or securities in an amount equal to (x) the excess of the consideration paid per Share in the Change in Control over the exercise or purchase price (if any) per Share subject to the Award multiplied by (y) the number of Shares granted under the Award and (ii) with respect to any Award that constitutes a deferral of compensation subject to Section 409A of the Code, in the event of a Change in Control that does not constitute a change in the ownership or effective control of the Company or in the ownership of a substantial portion of the assets of the Company under Section 409A(a)(2)(A)(v) of the Code and regulations thereunder, such Award shall be settled in accordance with its original terms or at such earlier time as permitted by Section 409A of the Code.

9. Miscellaneous.

(a) Agreements evidencing Awards under the Plan shall contain such other terms and conditions, not inconsistent with the Plan, as the Committee may determine in its sole discretion, including penalties for the commission of competitive acts or other actions detrimental to the Company. Notwithstanding any other provision hereof, the Committee shall have the right at any time to deny or delay a Participant's exercise of Options if such Participant is reasonably believed by the Committee (i) to be engaged in material conduct adversely affecting the Company or (ii) to be contemplating such conduct, unless and until the Committee shall have received reasonable assurance that the Participant is not engaged in, and is not contemplating, such material conduct adverse to the interests of the Company.

(b) Participants are and at all times shall remain subject to the trading window policies adopted by the Company from time to time throughout the period of time during which they may exercise Options, Stock Appreciation Rights or sell shares of Company Stock acquired pursuant to the Plan.

10. No Special Employment Rights, No Right to Award

(a) Nothing contained in the Plan or any Agreement shall confer upon any Participant any right with respect to the continuation of employment or service by the Company or interfere in any way with the right of the Company, subject to the

terms of any separate employment agreement to the contrary, at any time to terminate such employment or service or to increase or decrease the compensation of the Participant.

(b) No person shall have any claim or right to receive an Award hereunder. The Committee's granting of an Award to a Participant at any time shall neither require the Committee to grant any other Award to such Participant or other person at any time or preclude the Committee from making subsequent grants to such Participant or any other person.

11. Securities Matters.

(a) The Company shall be under no obligation to effect the registration pursuant to the Securities Act of any interests in the Plan or any shares of Company Stock to be issued hereunder or to effect similar compliance under any state laws. Notwithstanding anything herein to the contrary, the Company shall not be obligated to cause to be issued or delivered any certificates evidencing shares of Company Stock pursuant to the Plan unless and until the Company is advised by its counsel that the issuance and delivery of such certificates is in compliance with all applicable laws, regulations of governmental authority and the requirements of any securities exchange on which shares of Company Stock are traded. The Committee may require, as a condition of the issuance and delivery of certificates evidencing shares of Company Stock pursuant to the terms hereof, that the recipient of such shares make such agreements and representations, and that such certificates bear such legends, as the Committee, in its sole discretion, deems necessary or desirable.

(b) The transfer of any shares of Company Stock hereunder shall be effective only at such time as counsel to the Company shall have determined that the issuance and delivery of such shares is in compliance with all applicable laws, regulations of governmental authority and the requirements of any securities exchange on which shares of Company Stock are traded. The Committee may, in its sole discretion, defer the effectiveness of any transfer of shares of Company Stock hereunder in order to allow the issuance of such shares to be made pursuant to registration or an exemption from registration or other methods for compliance available under federal or state securities laws. The Committee shall inform the Participant in writing of its decision to defer the effectiveness of a transfer. During the period of such deferral in connection with the exercise of an Award, the Participant may, by written notice, withdraw such exercise and obtain the refund of any amount paid with respect thereto.

12. Withholding Taxes.

(a) Whenever cash is to be paid pursuant to an Award, the Company shall have the right to deduct therefrom an amount sufficient to satisfy any federal, state and local withholding tax requirements related thereto.

(b) Whenever shares of Company Stock are to be delivered pursuant to an Award, the Company shall have the right to require the Participant to remit to the Company in cash an amount sufficient to satisfy any federal, state and local withholding tax requirements related thereto. With the approval of the Committee, a Participant may satisfy the foregoing requirement by electing to have the Company withhold from delivery shares of Company Stock having a value equal to the minimum amount of tax required to be withheld. Such shares shall be valued at their Fair Market Value on the date of which the amount of tax to be withheld is determined. Fractional share amounts shall be settled in cash. Such a withholding election may be made with respect to all or any portion of the shares to be delivered pursuant to an Award.

13. Non-Competition and Confidentiality.

By accepting Awards and as a condition to the exercise of Awards and the enjoyment of any benefits of the Plan, including participation therein, each Participant agrees to be bound by and subject to non-competition, confidentiality and invention ownership agreements acceptable to the Committee or any officer or director to whom the Committee elects to delegate such authority.

14. Notification of Election Under Section 83(b) of the Code

If any Participant shall, in connection with the acquisition of shares of Company Stock under the Plan, make the election permitted under Section 83(b) of the Code, such Participant shall notify the Company of such election within 10 days of filing notice of the election with the Internal Revenue Service.

15. Amendment or Termination of the Plan

The Board of Directors or the Committee may, at any time, suspend or terminate the Plan or revise or amend it in any respect whatsoever; provided, however, that the requisite stockholder approval shall be required if and to the extent the

Board of Directors or Committee determines that such approval is appropriate or necessary for purposes of satisfying Sections 162(m) or 422 of the Code or Rule 16b-3 or other applicable law. Awards may be granted under the Plan prior to the receipt of such stockholder approval of the Plan but each such grant shall be subject in its entirety to such approval and no Award may be exercised, vested or otherwise satisfied prior to the receipt of such approval. No amendment or termination of the Plan may, without the consent of a Participant, adversely affect the Participant's rights under any outstanding Award.

16. Transfers Upon Death; Nonassignability.

(a) A Participant may file with the Committee a written designation of a beneficiary on such form as may be prescribed by the Committee and may, from time to time, amend or revoke such designation. If no designated beneficiary survives the Participant, upon the death of a Participant, outstanding Awards granted to such Participant may be exercised only by the executor or administrator of the Participant's estate or by a person who shall have acquired the right to such exercise by will or by the laws of descent and distribution. No transfer of an Award by will or the laws of descent and distribution shall be effective to bind the Company unless the Committee shall have been furnished with written notice thereof and with a copy of the will and/or such evidence as the Committee may deem necessary to establish the validity of the transfer and an agreement by the transferee to comply with all the terms and conditions of the Award that are or would have been applicable to the Participant and to be bound by the acknowledgments made by the Participant in connection with the grant of the Award.

(b) During a Participant's lifetime, the Committee may, in its discretion, pursuant to the provisions set forth in this clause (b), permit the transfer, assignment or other encumbrance of an outstanding Option unless such Option is an Incentive Stock Option and the Committee and the Participant intends that it shall retain such status. Subject to the approval of the Committee and to any conditions that the Committee may prescribe, a Participant may, upon providing written notice to the General Counsel of the Company, elect to transfer any or all Options granted to such Participant pursuant to the Plan to members of his or her immediate family, including, but not limited to, children, grandchildren and spouse or to trusts for the benefit of such immediate family members or to partnerships in which such family members are the only partners; provided, however, that no such transfer by any Participant may be made in exchange for consideration. Any such transferee must agree, in writing, to be bound by all provisions of the Plan.

17. Effective Date and Term of Plan.

The Plan shall become effective on the Effective Date, but the Plan shall be subject to the requisite approval of the stockholders of the Company at the Company's next annual meeting of its shareholders. In the absence of such approval, such Awards shall be null and void. Unless earlier terminated by the Board of Directors, the right to grant Awards under the Plan shall terminate on the tenth anniversary of the Effective Date. Awards outstanding at Plan termination shall remain in effect according to their terms and the provisions of the Plan.

18. Applicable Law.

Except to the extent preempted by any applicable federal law, the Plan shall be construed and administered in accordance with the laws of the State of Delaware, without reference to its principles of conflicts of law.

19. Participant Rights.

(a) No Participant shall have any claim to be granted any award under the Plan, and there is no obligation for uniformity of treatment for Participants. Except as provided specifically herein, a Participant or a transferee of an Award shall have no rights as a stockholder with respect to any shares covered by any award until the date of the issuance of a Company Stock certificate to him or her for such shares.

(b) Determinations by the Committee under the Plan relating to the form, amount and terms and conditions of grants and Awards need not be uniform, and may be made selectively among persons who receive or are eligible to receive grants and awards under the Plan, whether or not such persons are similarly situated.

20. Unfunded Status of Awards.

The Plan is intended to constitute an "unfunded" plan for incentive and deferred compensation. With respect to any payments not yet made to a Participant pursuant to an Award, nothing contained in the Plan or any Agreement shall give any such Participant any rights that are greater than those of a general creditor of the Company.

21. No Fractional Shares.

No fractional shares of Company Stock shall be issued or delivered pursuant to the Plan. The Committee shall determine whether cash, other Awards, or other property shall be issued or paid in lieu of such fractional shares or whether such fractional shares or any rights thereto shall be forfeited or otherwise eliminated.

22. Interpretation.

The Plan is designed and intended to the extent applicable, to comply with Section 162(m) of the Code, and to provide for grants and other transactions which are exempt under Rule 16b-3, and all provisions hereof shall be construed in a manner to so comply. Awards under the Plan are intended to comply with Code Section 409A to the extent subject thereto and the Plan and all Awards shall be interpreted in accordance with Code Section 409A and Department of Treasury regulations and other interpretive guidance issued thereunder, including without limitation any such regulations or other guidance that may be issued after the effective date of the Plan. Notwithstanding any provision in the Plan to the contrary, no payment or distribution under this Plan that constitutes an item of deferred compensation under Code Section 409A and becomes payable by reason of a Participant's termination of employment or service with the Company will be made to such Participant until such Participant's termination of employment or service constitutes a "separation from service" (as defined in Code Section 409A). For purposes of this Plan, each amount to be paid or benefit to be provided shall be construed as a separate identified payment for purposes of Code Section 409A. If a participant is a "specified employee" (as defined in Code Section 409A), then to the extent necessary to avoid the imposition of taxes under Code Section 409A, such Participant shall not be entitled to any payments upon a termination of his or her employment or service until the earlier of: (i) the expiration of the six (6)-month period measured from the date of such Participant's "separation from service" or (ii) the date of such Participant's death. Upon the expiration of the applicable waiting period set forth in the preceding sentence, all payments and benefits deferred pursuant to this Section 22 (whether they would have otherwise been payable in a single lump sum or in installments in the absence of such deferral) shall be paid to such Participant in a lump sum as soon as practicable, but in no event later than sixty (60) calendar days, following such expired period, and any remaining payments due under this Plan will be paid in accordance with the normal payment dates specified for them herein.

Amendment to increase the number of shares available for grant from 1,100,000 to 3,000,000 approved and adopted by the Board of Directors this 2^d day of May, 2016.



The Chrysler Building
405 Lexington Avenue, 26th Floor
New York, New York 10174
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August 15, 2016

The Board of Directors
Heat Biologics, Inc.
801 Capitola Drive
Durham, NC 27713

Re: Registration Statement on Form S-8

Gentlemen:

We refer to the Registration Statement on Form S-8 (the "Registration Statement") filed on even date by Heat Biologics, Inc., a Delaware corporation (the "Company"), with the Securities and Exchange Commission with respect to the registration of up to an aggregate of 1,900,000 shares of the Company's common stock, par value \$.0002 per share (the "Shares"), to be issued in connection with the Company's 2014 Stock Incentive Plan, as amended (the "Plan").

In connection with rendering this opinion, we have examined or are familiar with the charter documents of the Company, the Plan, the corporate proceedings with respect to the authorization of the Registration Statement and the Plan, and such other certificates, instruments and documents as we have considered necessary or appropriate for purposes of this opinion. In such examination, we have assumed the genuineness of all signatures, the authenticity of all documents submitted to us as originals, conformity to the original documents of all documents submitted to us as copies and the authenticity of the originals of such latter documents. As to any facts material to our opinion, we have, when relevant facts were not independently established, relied upon the Registration Statement and the aforesaid records, certificates and documents. We have made such examination as we have deemed necessary for the purpose of this opinion. Based upon such examination, it is our opinion, that, the Shares have been duly and validly authorized and when issued against receipt of the consideration therefore in accordance with the provisions of the Plan, will be validly issued, fully paid and non-assessable.

Our opinion is limited to the Delaware General Corporation Law. This opinion is given as of the date hereof and we assume no obligation to advise you of changes that may hereafter be brought to our attention.

We hereby consent to the use of this opinion as an exhibit to the Registration Statement.

Very truly yours,

/s/ Gracin & Marlow, LLP

Gracin & Marlow, LLP

Consent of Independent Registered Public Accounting Firm

Heat Biologics, Inc.
Durham, North Carolina

We hereby consent to the incorporation by reference in this Registration Statement of our report dated February 18, 2016, relating to the consolidated financial statements of Heat Biologics, Inc. appearing in the Company's Annual Report on Form 10-K for the year ended December 31, 2015. Our report contains an explanatory paragraph regarding the Company's ability to continue as a going concern.

/s/ BDO USA, LLP

Raleigh, North Carolina
August 15, 2016