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**INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

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|--|--|---|--|
| 1. Name and Address of Reporting Person *<br><u>Goyal Anil K.</u><br><br>(Last) (First) (Middle)<br><u>C/O 100 EUROPA DRIVE</u><br><br>(Street)<br><u>CHAPEL HILL NC 27517</u><br><br>(City) (State) (Zip) | 2. Date of Event Requiring Statement (Month/Day/Year)<br><u>12/16/2013</u> | 3. Issuer Name and Ticker or Trading Symbol<br><u>HEAT BIOLOGICS, INC. [ HTBX ]</u>   |  |
|  |  | 4. Relationship of Reporting Person(s) to Issuer (Check all applicable)<br><br>Director <input type="checkbox"/> 10% Owner <input type="checkbox"/><br>Officer (give title below) <input checked="" type="checkbox"/> Other (specify below) <input type="checkbox"/><br><u>VP of Business Development</u> | 5. If Amendment, Date of Original Filed (Month/Day/Year)<br><br>6. Individual or Joint/Group Filing (Check Applicable Line)<br><input checked="" type="checkbox"/> Form filed by One Reporting Person<br><input type="checkbox"/> Form filed by More than One Reporting Person |

**Table I - Non-Derivative Securities Beneficially Owned**

|                                 |   |  |   |
|---------------------------------|---|--|---|
| 1. Title of Security (Instr. 4) | 2. Amount of Securities Beneficially Owned (Instr. 4) | 3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5) | 4. Nature of Indirect Beneficial Ownership (Instr. 5) |
|---------------------------------|---|--|---|

**Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)**

| 1. Title of Derivative Security (Instr. 4) | 2. Date Exercisable and Expiration Date (Month/Day/Year) |                   | 3. Title and Amount of Securities Underlying Derivative Security (Instr. 4) |                             | 4. Conversion or Exercise Price of Derivative Security | 5. Ownership Form: Direct (D) or Indirect (I) (Instr. 5) | 6. Nature of Indirect Beneficial Ownership (Instr. 5) |
|--|--|-------------------|---|-----------------------------|--|--|---|
|  | Date Exercisable   | Expiration Date   | Title   | Amount or Number of Shares  |  |  |   |
| <u>Stock Options</u>                       | <u>12/16/2013</u>  | <u>12/15/2023</u> | <u>Common Stock</u>   | <u>40,000<sup>(1)</sup></u> | <u>7.58</u>  | <u>D</u>   |   |

**Explanation of Responses:**

1. These options are exercisable over a ten year period, vesting pro rata on a monthly basis over a 4-year period.

/s/ Anil K. Goyal, Ph.D.

12/19/2013

\*\* Signature of Reporting Person

Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

\* If the form is filed by more than one reporting person, see Instruction 5 (b)(v).

\*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.