

HEMISPHERX BIOPHARMA INC  
 Form 5  
 January 26, 2007

**FORM 5**

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

OMB APPROVAL  
 OMB Number: 3235-0362  
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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).  
 Form 3 Holdings Reported Form 4 Transactions Reported

**ANNUAL STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person \*  
**CARTER WILLIAM A**  
 (Last) (First) (Middle)

2. Issuer Name and Ticker or Trading Symbol  
**HEMISPHERX BIOPHARMA INC [HEB]**

3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year)  
 12/31/2006

4. If Amendment, Date Original Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to Issuer  
 (Check all applicable)  
 Director  10% Owner  
 Officer (give title below)  Other (specify below)  
 CEO

6. Individual or Joint/Group Reporting  
 (check applicable line)

1617 JFK BLVD, SUITE 660  
 (Street)

PHILADELPHIA, PA 19103  
 (City) (State) (Zip)

Form Filed by One Reporting Person  
 Form Filed by More than One Reporting Person

**Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned**

| 1. Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction Code (Instr. 8) | 4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | (A) or (D) | Price   | 5. Amount of Securities Beneficially Owned at end of Issuer's Fiscal Year (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Beneficial Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|------------|---------|--|--|---|
| Common Stock                    | 03/21/2006                           |  | S4                             | 10,000  | D          | \$ 3.99 | 272,030  | D  |   |
| Common Stock                    | 05/01/2006                           |  | G4                             | 20,000  | D          | \$ 0    | 272,030  | D  |   |
| Common Stock                    | 07/31/2006                           |  | G4                             | 15,000  | D          | \$ 0    | 272,030  | D  |   |
| Common Stock                    | 12/01/2006                           |  | P                              | 17,500  | A          | \$ 2    | 272,030  | D  |   |

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|              |            |   |   |       |   |         |         |   |   |
|--------------|------------|---|---|-------|---|---------|---------|---|---|
| Common Stock | 12/01/2006 | Â | P | 1,900 | A | \$ 1.97 | 272,030 | D | Â |
| Common Stock | 12/01/2006 | Â | P | 600   | A | \$ 1.99 | 272,030 | D | Â |
| Common Stock | 12/29/2006 | Â | G | 6,000 | D | \$ 0    | 272,030 | D | Â |

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

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(9-02)

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

| 1. Title of Derivative Security (Instr. 3) | 2. Conversion or Exercise Price of Derivative Security | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any (Month/Day/Year) | 4. Transaction Code (Instr. 8) | 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | 6. Date Exercisable and Expiration Date (Month/Day/Year) | 7. Title and Amount of Underlying Security (Instr. 3 and 4) |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|
| Options                                    | \$ 2.38  | 01/03/2006                           | Â  | A                              | 300,000   | Â 01/03/2006 01/03/2016                                  | Common Stock 300,000  |
| Options                                    | \$ 3.78  | 02/22/2006                           | Â  | A                              | 376,650   | Â 02/22/2006 02/22/2016                                  | Common Stock 376,650  |

## Reporting Owners

| Reporting Owner Name / Address   | Relationships |           |         |       |
|--|---------------|-----------|---------|-------|
|  | Director      | 10% Owner | Officer | Other |
| CARTER WILLIAM A<br>1617 JFK BLVD<br>SUITE 660<br>PHILADELPHIA, PA 19103 | Â X           | Â X       | Â CEO   | Â     |

## Signatures

William A. Carter  
01/26/2007

\*\*Signature of Reporting Person  
Date

## Explanation of Responses:

\* If the form is filed by more than one reporting person, see Instruction 4(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 provided is insufficient, see Instruction 6 for procedure.

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