

HEMISPHERX BIOPHARMA INC
 Form 5
 January 26, 2007

FORM 5

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

OMB APPROVAL

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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 *			2. Issuer Name and Ticker or Trading Symbol		5. Relationship of Reporting Person(s) to Issuer	
PETERSON ROBERT E			HEMISPHERX BIOPHARMA INC [HEB]		(Check all applicable)	
(Last)	(First)	(Middle)	3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year)		<input type="checkbox"/> Director	<input type="checkbox"/> 10% Owner
			12/31/2006		<input checked="" type="checkbox"/> Officer (give title below)	<input type="checkbox"/> Other (specify below)
137 SPRUCE CIRCLE N			4. If Amendment, Date Original Filed(Month/Day/Year)		CFO	
					6. Individual or Joint/Group Reporting (check applicable line)	
BANNEGAT, NJ 08005					<input type="checkbox"/> Form Filed by One Reporting Person	
(City)	(State)	(Zip)			<input type="checkbox"/> 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)	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 Ownership (Instr. 4)
				(A) or (D) Price			

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

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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	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	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Security (Instr. 3 and 4)

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	Derivative Security				Disposed of (D) (Instr. 3, 4, and 5)		Date Exercisable	Expiration Date	Title	Amount Number of Shares
					(A)	(D)				
Options	\$ 3.85	02/28/2006	Â	A	50,000	Â	02/28/2006	02/28/2016	Common Stock	50,000
Options	\$ 3.48	04/14/2006	Â	A	100,000	Â	04/14/2006	04/14/2016	Common Stock	100,000
Common Stock	\$ 3.55	04/30/2006	Â	A	30,000	Â	04/30/2006	04/30/2016	Common Stock	30,000

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
PETERSON ROBERT E 137 SPRUCE CIRCLE N BANNEGAT, NJ 08005	Â	Â	Â CFO	Â

Signatures

Robert E.
Peterson

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).

(1) The reporting person also indirectly owns 55,000 shares with his Spouse.

Note: File three copies of this Form, one of which must be manually signed. If space provided is insufficient, see Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.