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FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Check this box if no longer subject to
Section 16. Form 4 or Form 5
obligations may continue. See
Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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 Addre Fusco Joan	ss of Reporting Per	son*	2. Issuer Name and Ticker or Trading Symbol <u>PHARMATHENE, INC</u> [PIP]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner
(Last) (First) (M C/O PHARMATHENE, INC. ONE PARK PLACE, SUITE 450		(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 10/26/2009	X Oncer (give nue Other (specify below) below) SVP, Operations
(Street) ANNAPOLIS (City)	MD (State)	21401 (Zip)	4. If Amendment, Date of Original Filed (Month/Day/Year)	 6. Individual or Joint/Group Filing (Check Applicable Line) X 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)		ransaction ode (Instr. 5) Disposed Of (D) (Instr. 3, 4 and 5) Disposed Of (D) (Instr. 3, 4 and 5) Owned Following (I) (I) (I) (I) (I) (I) (I) (I) (I) (I)		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)			
			Code	v	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)		(1150.4)

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. Transa Code (8)		of		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Stock Option (right to buy)	\$3.97	10/26/2009		A		20,000		(1)	10/26/2019	Common Stock	20,000	(2)	20,000	I	See Footnote ⁽³⁾

Explanation of Responses:

1. The stock option vests over a 4 year period with 25% each vesting on the first, second, third and fourth anniversaries of the grant date.

2. On October 26, 2009, the date the stock option was granted, the closing price of the Issuer's common stock was \$3.97 per share.

3. The stock option was granted to the Reporting Person's spouse in connection with commencement of employment, and the Reporting Person is therefore deemed to be the indirect beneficial owner of such option

> /s/ Roland S. Chase, by power 10/28/2009

of attorney

** 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 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 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.