Instruction 1(b).

FORM 4

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

| OMB APP | ROVAL | | | | | | | |
|--------------------------|-----------|--|--|--|--|--|--|--|
| OMB Number: | 3235-0287 | | | | | | | |
| Estimated average burden | | | | | | | | |
| hours nor response | . 0 5 | | | | | | | |

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

| Name and Address of Reporting Person* McCleary Joel | | | | | 2. Issuer Name and Ticker or Trading Symbol PHARMATHENE, INC [PIP] | | | | | | | Relationship neck all appli X Directo | cable) or | g Pers | 10% Ov | vner | |
|--|---------------|------------|------------------------------------|--|---|--|-----|---|---------------|---|--|---|--|---|----------|---------------|--|
| (Last) | (F ARMATHE | , | (Middle) | | 3. Date of Earliest Transaction (Month/Day/Year) 06/22/2012 Officer (give title below) Other (specify below) | | | | | | | | | specify | | | |
| ONE PARK PLACE, SUITE 450 | | | | 4 | 4. If Amendment, Date of Original Filed (Month/Day/Year) | | | | | | 6. Individual or Joint/Group Filing (Check Applicable | | | | | | |
| (Street) | OLIS M | ID | 21401 | | | | | | | | | Lir | X Form f | iled by More | • | orting Person | |
| (City) | (S | tate) | (Zip) | | | | | | | | | | | | | | |
| Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned | | | | | | | | | | | | | | | | | |
| Date | | | . Transactio Date Month/Day/ | Execution Date, | | Code (Instr. 5) | | | | Benefici | es Fo ally (D) Following (I) | | Ownership orm: Direct) or Indirect (Instr. 4) | 7. Nature of Indirect Beneficial Ownership (Instr. 4) | | | |
| | | | | | | Code | v | Amount | (A) or (D) | Price | Transact (Instr. 3 | ction(s) | | | (1150.4) | | |
| Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities) | | | | | | | | | | | | | | | | | |
| Derivative Conversion Date Execution Date, T General Conversion Or Exercise (Month/Day/Year) I Gany Conversion Date Conversion Date (Month/Day/Year) | | | Code | nsaction de (Instr. 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 Amour of Securities Underlying Derivative Securit (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) | Beneficial Ownership (Instr. 4) | | | |
| | | | | Code | v | (A) | (D) | Date Exercisal | | Expiration Date | Title | Amount or Number of Shares | | | | | |
| Stock option (right to buy) | \$1.45 | 06/22/2012 | | A | | 20,000 | | 06/22/20 | 13 | 06/22/2022 | Common Stock | 20,000 | (1) | 20,000 |) | D | |

Explanation of Responses:

1. On June 22, 2012, the date the stock option was granted, the closing price of the Issuer's common stock was \$1.45 per share.

/s/ Roland S. Chase, attorney in fact

OWNERSHIP

06/26/2012

** 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.