

**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP**

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

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

| OMB APPROVAL                                 |           |
|--|-----------|
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|  |   |   |
|--|---|---|
| 1. Name and Address of Reporting Person *<br><u>MITCHELL W THOMAS</u><br><hr/> (Last) (First) (Middle)<br><u>12780 EL CAMINO REAL</u><br><hr/> (Street)<br><u>SAN DIEGO CA 92130</u><br><hr/> (City) (State) (Zip) | 2. Issuer Name and Ticker or Trading Symbol<br><u>NEUROCRINE BIOSCIENCES INC [ NBIX ]</u> | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable)<br><input checked="" type="checkbox"/> Director 10% Owner<br>Officer (give title below) Other (specify below) |
|  | 3. Date of Earliest Transaction (Month/Day/Year)<br><u>04/16/2014</u>                     |   |
| 4. If Amendment, Date of Original Filed (Month/Day/Year)   |   |   |

**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 Following Reported Transaction(s) (Instr. 3 and 4) | 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   |   |  |   |
| Common Stock                    | 04/16/2014                           |  | M                              |   | 12,000  | A          | \$12.37 | 13,000 <sup>(1)</sup>   | D  |   |
| Common Stock                    | 04/16/2014                           |  | F                              |   | 10,725  | D          | \$13.84 | 2,275 <sup>(1)</sup>  | D <sup>(2)</sup>   |   |

**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 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 |
| Stock Option                               | \$12.37  | 04/16/2014                           |  | M                              |   |  | 12,000 | 07/01/2007   | 06/01/2014      | Common Stock  | 12,000                                     | \$0  | 0   | D  |       |

**Explanation of Responses:**

1. The share issuance reported on Table I reflects shares issued upon the exercise of options granted on June 1, 2007, which, if unexercised, would have expired on June 1, 2014. The option exercises are reported on Table II. These option exercises were pursuant to a net issuance arrangement effected under the issuer's equity incentive plan. The number of shares issued pursuant to the net issuance arrangement was calculated as follows: the option exercise price (\$12.37) was subtracted from the April 16, 2014 market close price (\$13.84), and this net amount (\$1.47) was then multiplied by the number of options (12,000), with the resulting amount then divided by the market close price to result in a net issuance of 1,275 shares to the optionee. The 10,725 shares underlying the remaining portion of the options are not available for reissuance, and no shares are sold into the market as part of the exercise in connection with a net issuance program.

2. 1,275 shares are held directly by the Reporting Person; 1,000 shares are held indirectly by The Mitchell Living Trust

**Remarks:**

Timothy P. Coughlin, By Power of Attorney 04/18/2014

\*\* 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.

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