FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

| OMB APPR                 | OVAL      |  |  |  |  |  |  |  |
|--------------------------|-----------|--|--|--|--|--|--|--|
| OMB Number:              | 3235-0287 |  |  |  |  |  |  |  |
| Estimated average burden |           |  |  |  |  |  |  |  |
| hours per response:      | 0.5       |  |  |  |  |  |  |  |

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

| Name and Address of Reporting Person*     VALE WYLIE W        |  |  |  | 2. Issuer Name and Ticker or Trading Symbol NEUROCRINE BIOSCIENCES INC NBIX |  |   |  |      |  |        |                    | X Che   | Relationship of Report (Check all applicable)     X Director |   |   | rting Person(s) to Issuer<br>10% Owner  |   |  |   |  |
|---|--|--|--|---|--|---|--|------|--|--------|--------------------|---|--|---|---|---|---|--|---|--|
| (Last) (First) (Middle) THE SALK INSTITUTE                    |  |  |  | 3. Date of Earliest Transaction (Month/Day/Year) 05/28/2008                 |  |   |  |      |  |        |                    | $\parallel$   | Officer<br>below)  | (give title                                 |   | Other (s<br>below)  | specify   |  |   |  |
| 10010 N.TORREY PINES ROAD                                     |  |  |  |   |  | If Amendment, Date of Original Filed (Month/Day/Year) |  |      |  |        |                    |   |  | 6 In  | 6. Individual or Joint/Group Filing (Check Applicable |   |   |  |   |  |
| (Street)  |  |  |  | 4. "  | 4. II Amendment, Date of Original Filed (Month/Day/Year) |   |  |      |  |        |                    |   | Line   | Line)  X Form filed by One Reporting Person |   |   |   |  |   |  |
| LA JOLLA CA 92037   |  |  |  |   |  |   |  |      |  |        |                    |   | Form filed by More than One Reporting Person                 |   |   |   |   |  |   |  |
| (City)  | (S   | tate)                                      | (Zip)  |   |  |   |  |      |  |        |                    |   |  |   | 1 61301   | •   |   |  |   |  |
|   | Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned   |  |  |   |  |   |  |      |  |        |                    |   |  |   |   |   |   |  |   |  |
| 1. Title of Security (Instr. 3)  2. Transac Date (Month/Date) |  |  |  | Execution Date,   |  | Date,   | 3. 4. Securi<br>Transaction<br>Code (Instr. 5)   |      |  |        |                    |   | 5. Amou<br>Securitie<br>Beneficia<br>Owned F<br>Reported     | ities icially d Following ted action(s)     |   | : Direct<br>r Indirect<br>str. 4)   | 7. Nature<br>of Indirect<br>Beneficial<br>Ownership |  |   |  |
|   |  |  |  |   |  |   |  | Code | v  | Amount | (A) or (D)         |   | Price  |   |   | Transact<br>(Instr. 3   |   | (Instr. 4)   |   |  |
|   | Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities) |  |  |   |  |   |  |      |  |        |                    |   |  |   |   |   |   |  |   |  |
| 1. Title of<br>Derivative<br>Security<br>(Instr. 3)           | 2.<br>Conversion<br>or Exercise<br>Price of<br>Derivative<br>Security  | 3. Transaction<br>Date<br>(Month/Day/Year) | 3A. Deemed<br>Execution Da<br>if any<br>(Month/Day/Y | C   | ransac<br>ode (Ir  |   | 5. Number<br>of<br>Derivative<br>Securities<br>Acquired<br>(A) or<br>Disposed<br>of (D) (Instr.<br>3, 4 and 5) |      | 6. Date Exercisable and<br>Expiration Date<br>(Month/Day/Year) |        |                    | 7. Title<br>of Sect<br>Under!<br>Derivat<br>(Instr. 3 | urities<br>ying<br>tive S                                    | ecurity                                     | 8. Price of<br>Derivative<br>Security<br>(Instr. 5)   | 9. Number<br>derivative<br>Securities<br>Beneficial<br>Owned<br>Following<br>Reported<br>Transactio<br>(Instr. 4) | ly  | 10.<br>Ownership<br>Form:<br>Direct (D)<br>or Indirect<br>(I) (Instr. 4) | Beneficial<br>Ownership<br>t (Instr. 4) |  |
|   |  |  |  | C   | ode  | v   | (A)  |      | Date<br>Exercisabl   |        | expiration<br>Date | Title   | 0<br>N   | Amount<br>or<br>Number<br>of<br>Shares      |   |   |   |  |   |  |
| Stock<br>Option <sup>(1)</sup>                                | \$4.76   | 05/28/2008                                 |  |   | A  |   | 15,000   |      | 06/28/2008   | 3 0    | 5/28/2015          | Commo   |  | 15,000                                      | \$0   | 15,000  |   | D  |   |  |

## **Explanation of Responses:**

1. Represents option of which 1/12th of the shares underlying the option becomes vested and exercisable on June 28, 2008, an additional 1/12th of the shares underlying the option becomes vested and exercisable each month thereafter.

## Remarks:

Margaret E. Valeur-Jensen, By

05/29/2008

Power 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.