FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

| OMB APPROVAL | | | | | | | | |
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| OMB Number: | 3235-0287 | | | | | | | |
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| hours per response: | | | | | | | | |
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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).

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

| (Last) | Name and Address of Reporting Person* Tessier-Lavigne Marc Last) (First) (Middle) C/O AGIOS PHARMACEUTICALS, INC. | | | | | | | 2. Issuer Name and Ticker or Trading Symbol AGIOS PHARMACEUTICALS INC [AGIO] 3. Date of Earliest Transaction (Month/Day/Year) 06/21/2016 | | | | | | | | | | Owner | |
|---|--|------------|--|---------|----------------------------------|--------------------------------|--|---|--|------|------------|---|--------------------------------|------------------------|--|--|--|---|--|
| 88 SIDN (Street) | 88 SIDNEY STREET Street) CAMBRIDGE MA 02139 | | | | | | 4. If Amendment, Date of Original Filed (Month/Day/Year) | | | | | | | | | al or Joint/Group Filing (Check Applicable orm filed by One Reporting Person orm filed by More than One Reporting erson | | | |
| Table I - Non-Deriva 1. Title of Security (Instr. 3) 2. Transacti Date (Month/Day | | | | | ction | ion 2A. Deemed Execution Date, | | | | Di: | 4. Se | curities Ac | quired | (A) c | 5. Am Secur | ount of ities icially | 6. Ownership Form: Direct (D) or Indirect (I) | 7. Nature of Indirect Beneficial Ownership | |
| | | | | | (| | | Code | v | Amou | ınt (A | a) or | Price | Follo Repo Trans | wing | (Instr. 4) | (Instr. 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 | | 3A. Deen Executio if any (Month/E | n Date, | 4. Transact Code (In 8) | | | | 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 o derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4) | Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | Beneficial Ownership | |
| | | | | | Code | v | (A) | (D) | Date Exercisab | | expiration | Title | Amo or Num of Shar | ber | | | | | |
| Stock option (right to buy) | \$47.33 | 06/21/2016 | | | A | | 8,500 | | (1) | C | 06/20/2026 | Common | 8,5 | 00 | \$0.00 | 48,875 | D | | |

Explanation of Responses:

 $1. \ This \ option \ was \ granted \ on \ June \ 21, \ 2016. \ The \ shares \ underlying \ this \ option \ vest \ as \ to \ 100\% \ of \ the \ underlying \ shares \ on \ June \ 21, \ 2017.$

Remarks:

/s/ Glenn Goddard, as
Attorney-in-fact for Marc
Tessier-Lavigne

06/23/2016

** 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.