

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

| | | | | | | | | |
|--|--------------------|----------|--|--|--|---|--|--|
| 1. Name and Address of Reporting Person* MARAGANORE JOHN | | | 2. Issuer Name and Ticker or Trading Symbol AGIOS PHARMACEUTICALS INC [AGIO] | | | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director 10% Owner Officer (give title below) Other (specify below) | | |
| (Last) | (First) | (Middle) | 3. Date of Earliest Transaction (Month/Day/Year) 05/29/2019 | | | 6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person Form filed by More than One Reporting Person | | |
| C/O AGIOS PHARMACEUTICALS, INC. 88 SIDNEY STREET | | | 4. If Amendment, Date of Original Filed (Month/Day/Year) | | | | | |
| (Street) | CAMBRIDGE MA 02139 | | | | | | | |
| (City) | (State) | (Zip) | | | | | | |

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 | 05/31/2019 | | M | | 1,400 | A | (1) | 37,609 | D | |

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) | |
|--|--|--------------------------------------|--|--------------------------------|--|--|-----------------|---|--|--|---|--|----------------------------|
| | | | | | | Date Exercisable | Expiration Date | | | | | | Amount or Number of Shares |
| Stock option (right to buy) | \$47.91 | 05/29/2019 | | A | 8,919 | (2) | 05/29/2029 | Common stock | 8,919 | \$0.00 | 8,919 | D | |
| Restricted stock units | (1) | 05/29/2019 | | A | 1,878 | (3) | (3) | Common stock | 1,878 | \$0.00 | 1,878 | D | |
| Restricted stock units | (1) | 05/31/2019 | | M | 1,400 | (4) | (4) | Common stock | 1,400 | \$0.00 | 0 | D | |

Explanation of Responses:

- Each restricted stock unit represents a contingent right to receive one share of the issuer's common stock.
- This option was granted on May 29, 2019. The shares underlying this option vest as to 100% of the underlying shares on May 29, 2020.
- The restricted stock units were granted on May 29, 2019. The shares underlying the stock units will vest in full on May 29, 2020. Vested shares will be delivered to the reporting person within three business days after such shares become vested.
- The restricted stock units were granted on May 31, 2018. The shares underlying the stock units vested in full on May 31, 2019. Vested shares will be delivered to the reporting person within three business days after such shares become vested.

Remarks:

/s/ William Cook, as Attorney-in-fact for John Maraganore 05/31/2019

** 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.