FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

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).

## 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

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|---|--|------------|--|---|--|---|---------|-------------|------------------|---|------------------------|------------------------|--|--|---|---|---------------|--|--|---------------------------------------|--|
| 1. Name and Address of Reporting Person*  MARAGANORE JOHN |  |            |  |   | 2. Issuer Name and Ticker or Trading Symbol AGIOS PHARMACEUTICALS, INC. [ AGIO ] |   |         |             |                  |   |                        |                        |  | (Ch  | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) |   |               |  |  |                                       |  |
| MAKAGANOKE JOHN   |  |            |  |   |  |   |         |             |                  |   |                        |                        |  | AC   |   | X Dire  |               |  | 10% O  |                                       |  |
| (Loot) (First) (Middle)                                   |  |            |  | ` L   |  |   |         |             |                  |   |                        |                        |  |  | Offi<br>belo  | er (give title<br>w)                            | ;             | Other (:<br>below)                     | specify  |                                       |  |
| (Last) (First) (Middle)                                   |  |            |  |   |  | 3. Date of Earliest Transaction (Month/Day/Year)            |         |             |                  |   |                        |                        |  |  |   |   | ,             |  |  |                                       |  |
| C/O AGIOS PHARMACEUTICALS, INC.                           |  |            | 05/  | 05/28/2021  |  |   |         |             |                  |   |                        |                        |  |  |   |   |               |  |  |                                       |  |
| 88 SIDNEY STREET  |  |            |  | 4 1   | 4. If Amendment, Date of Original Filed (Month/Day/Year)                         |   |         |             |                  |   |                        |                        |  |  | 6. Individual or Joint/Group Filing (Check Applicable                   |   |               |  |  |                                       |  |
| (Ctroot)  |  |            |  |   | .   7. "   | 4. II Ameridinetit, Date of Original Filed (Month/Day/Year) |         |             |                  |   |                        |                        |  |  |   | Line)   |               |  |  |                                       |  |
| (Street)  | IDGE 1   | мA         | 02139  |   |  |   |         |             |                  |   |                        |                        |  |  |   | X For   | n filed by Or | ne Rep                                 | orting Perso   | n                                     |  |
|   | IDGE 1   |            | 02133  |   |  |   |         |             |                  |   |                        |                        |  | Form filed by More than One Reporting Person |   |   |               |  |  |                                       |  |
| (City)  | (  | State)     | (Zip)  |   |  |   |         |             |                  |   |                        |                        |  |  |   |   |               |  |  |                                       |  |
|   | Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned   |            |  |   |  |   |         |             |                  |   |                        |                        |  |  |   |   |               |  |  |                                       |  |
| 1. Title of Security (Instr. 3)  2. Trans Date (Month)    |  |            |  | 2A. Deemed<br>Execution Date,<br>if any<br>(Month/Day/Year) |  | Code (Instr. 5)   |         |             |                  |   | d Secu<br>Bene<br>Owne | icially<br>d Following | es Form<br>ially (D) of<br>Following (I) (II   |  | 7. Nature<br>of Indirect<br>Beneficial<br>Ownership                     |   |               |  |  |                                       |  |
|   |  |            |  |   |  |   |         |             | Code             | v   | Amount                 | mount (A) (C)          |  | Price  | Trans   | Reported<br>Transaction(s)<br>(Instr. 3 and 4)  |               |  | (Instr. 4)   |                                       |  |
| Common stock 02/  |  |            | 02/04  | 4/2021  |  |   |         |             | G <sup>(1)</sup> | V   | 3,415                  |                        | D  | \$0  | 26,757  |   |               | D                                      |  |                                       |  |
| Common stock 05/2   |  |            | 05/28  | 8/2021  |  |   |         |             | M                |   | 1,686                  |                        | Α  | \$0  |   | 28,443  | 3,443         |  |  |                                       |  |
|   | Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities) |            |  |   |  |   |         |             |                  |   |                        |                        |  |  |   |   |               |  |  |                                       |  |
| Derivative Conversion Date                                |  |            | 3A. Deemed<br>Execution Date<br>if any<br>(Month/Day/Yea |   | Code (Inst   |   | on of E |             | Exp              | s. Date Exercisable and<br>Expiration Date<br>Month/Day/Year) |                        |                        | 7. Title and<br>Amount of<br>Securities<br>Underlying<br>Derivative Secu<br>(Instr. 3 and 4) |  |   | 8. Price<br>Derivativ<br>Security<br>(Instr. 5) |               | re<br>es<br>ally<br>ig<br>d<br>tion(s) | 10.<br>Ownership<br>Form:<br>Direct (D)<br>or Indirect<br>(I) (Instr. 4) | Beneficial<br>Ownership<br>(Instr. 4) |  |
|   |  |            |  |   | Code   | v   | (A)     | (D)         | Dat<br>Exe       | te<br>ercisable   |                        | xpiration<br>ate       | Title  | 1  | Amount<br>or<br>Number<br>of<br>Shares                                  |   |               |  |  |                                       |  |
| Restricted  | (2)  | 05/28/2021 |  |   | М  |   | 1       | 1.686       |                  | (3)   |                        | (3)                    | Con  | nmon   | 1.686   | \$0   |               |  | D  |                                       |  |

## **Explanation of Responses:**

- 1. This disposition reflects a bona fide gift of 3,415 shares to charity.
- $2. \ Each \ restricted \ stock \ unit \ represents \ a \ contingent \ right \ to \ receive \ one \ share \ of \ the \ issuer's \ common \ stock.$
- 3. The restricted stock units were granted on May 28, 2020. The shares underlying the stock units will vest in full on May 28, 2021. Vested shares will be delivered to the reporting person within three businessdays after such shares become vested.

## Remarks:

stock units

/s/ William Cook, as Attorneyin-fact for John Maraganore

stock

06/02/2021

\*\* 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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