## FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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 OMB APPROVAL
OMB Number: 3235-0287

Estimated average burden hours per response: 0.5

| 1. Name and Addres <u>Alenson Carr</u> | nan     |            | 2. Issuer Name and Ticker or Trading Symbol<br><u>AGIOS PHARMACEUTICALS, INC.</u> [<br>AGIO ] |   | ationship of Reporting Person(s) to Issuer<br>( all applicable)<br>Director 10% Owner<br>Officer (give title Other (specify<br>below) below) |                 |  |  |
|--|---------|------------|---|---|--|-----------------|--|--|
| (Last)<br>C/O AGIOS PH                 | (First) | (Middle)   | 3. Date of Earliest Transaction (Month/Day/Year)<br>02/14/2020                                | Principal Accounting Officer                                |  |                 |  |  |
| 88 SIDNEY STE                          |         | illo inte. | 02/14/2020  |   |  |                 |  |  |
|  |         |            | 4. If Amendment, Date of Original Filed (Month/Day/Year)                                      | 6. Individual or Joint/Group Filing (Check Applicable Line) |  |                 |  |  |
| (Street)                               | MA      | 02139      |   | X   | Form filed by One Rep  | orting Person   |  |  |
|  | MA      | 02139      |   |   | Form filed by More tha<br>Person   | n One Reporting |  |  |
| (City)                                 | (State) | (Zip)      |   |   |  |                 |  |  |

#### Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

| 1. Title of Security (Instr. 3) | 2. Transaction<br>Date<br>(Month/Day/Year) | 2A. Deemed<br>Execution Date,<br>if any<br>(Month/Day/Year) | 3.<br>Transaction<br>Code (Instr.<br>8) |   |        |               |         | 5. Amount of<br>Securities<br>Beneficially<br>Owned Following<br>Reported | 6. Ownership<br>Form: Direct<br>(D) or Indirect<br>(I) (Instr. 4) | 7. Nature of<br>Indirect<br>Beneficial<br>Ownership<br>(Instr. 4) |  |
|---------------------------------|--|---|---|---|--------|---------------|---------|---|---|---|--|
|                                 |  |   | Code                                    | v | Amount | (A) or<br>(D) | Price   | Transaction(s)<br>(Instr. 3 and 4)  |   | (11341.4)   |  |
| Common stock                    | 02/16/2020                                 |   | М                                       |   | 790    | Α             | (1)     | 974   | D   |   |  |
| Common stock                    | 02/16/2020                                 |   | М                                       |   | 2,800  | Α             | (1)     | 3,774   | D   |   |  |
| Common stock                    | 02/18/2020                                 |   | F                                       |   | 1,163  | D             | \$52.01 | 2,611   | D   |   |  |

# Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

| (e.g., purs, cans, 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 Date,<br>if any<br>(Month/Day/Year) | 4.<br>Transa<br>Code (<br>8) |   | 5. Nun<br>Deriva<br>Securi<br>Acquin<br>or Dis<br>of (D)<br>3, 4 an | tive<br>ties<br>red (A)<br>posed<br>(Instr. | 6. Date Exercisable and<br>Expiration Date<br>(Month/Day/Year) |                    | 7. Title and<br>Amount of<br>Securities<br>Underlying<br>Derivative Security<br>(Instr. 3 and 4) |  | 8. Price of<br>Derivative<br>Security<br>(Instr. 5) | 9. Number of<br>derivative<br>Securities<br>Beneficially<br>Owned<br>Following<br>Reported | 10.<br>Ownership<br>Form:<br>Direct (D)<br>or Indirect<br>(I) (Instr. 4) | 11. Nature<br>of Indirect<br>Beneficial<br>Ownership<br>(Instr. 4) |
|   |   |  |   | Code                         | v | (A)   | (D)   | Date<br>Exercisable  | Expiration<br>Date | Title  | Amount<br>or<br>Number<br>of<br>Shares |   | Transaction(s)<br>(Instr. 4)   |  |  |
| Restricted stock units  | (1)   | 02/14/2020                                 |   | Α                            |   | 2,666   |   | (2)  | (2)                | Common<br>stock  | 2,666                                  | \$ <mark>0</mark>                                   | 2,666  | D  |  |
| Restricted stock unit   | (1)   | 02/14/2020                                 |   | Α                            |   | 4,800   |   | (3)  | (3)                | Common<br>stock  | 4,800                                  | \$ <mark>0</mark>                                   | 4,800  | D  |  |
| Stock<br>option<br>(right to<br>buy)                          | \$51.51   | 02/14/2020                                 |   | A                            |   | 5,332   |   | (4)  | 02/14/2030         | Common<br>stock  | 5,332                                  | \$0   | 5,332  | D  |  |
| Restricted stock units  | (1)   | 02/16/2020                                 |   | М                            |   |   | 790   | (5)  | (5)                | Common<br>stock  | 790                                    | \$ <mark>0</mark>                                   | 790  | D  |  |
| Restricted stock units  | (1)   | 02/16/2020                                 |   | м                            |   |   | 2,800                                       | (6)  | (6)                | Common<br>stock  | 2,800                                  | \$0   | 0  | D  |  |

#### Explanation of Responses:

1. Each restricted stock unit represents a contingent right to receive one share of the issuer's common stock.

2. The restricted stock units were granted on February 14, 2020. Beginning on February, 2021, the shares underlying the restricted stock units will vest in three equal annual installments.

3. The restricted stock units were granted on February 14, 2020. The shares underlying the restricted stock units will vest in full on February 14, 2022.

4. This option was granted on February 14, 2020. The shares underlying this option vest as to 25% of the underlying shares on February 14, 2021, with the remaining 75% vesting in 36 equal monthly installments thereafter.

5. The restricted stock units were granted on February 16, 2018. The shares underlying the restricted stock units will vest in three equal annual installments on February 16, 2019, 2020 and 2021. Vested shares will be delivered to the reporting person within three business days after such shares become vested.

6. All of the restricted stock units will vest on February 16, 2020. Vested shares will be delivered to the reporting person within three business days after such shares become vested.

Remarks:

/s/ William Cook as attorney-

<u>in-fact for Carman Alenson</u> \*\* Signature of Reporting Person

02/19/2020

Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

 $\ast$  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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