| SEC Form 4 |  |
|------------|--|
|------------|--|

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

| OMB Number:           | 3235-0287 |
|-----------------------|-----------|
| Estimated average bur | den       |
| 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).

FORM 4

## 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*<br>FOUSE JACQUALYN A    |  |          |                   | er Name <b>and</b> Ticke                | 0                                 | ·  | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) |  |   |  |  |  |  |
|--|--|----------|-------------------|---|-----------------------------------|--|---|--|---|--|--|--|--|
| 1003EJAC   | QUALINA  |          | AGIO              | ]                                       |                                   |  | X   | Director                                   | 10% C   | Dwner                                  |  |  |  |
| (Last)   | (First)  | (Middle) |                   |   |                                   |  | X   | Officer (give title<br>below)              | Other<br>below                                  | (specify<br>)                          |  |  |  |
| C/O AGIOS PH<br>88 SIDNEY ST                                     | ARMACEUTIC   | · · ·    | 3. Date<br>04/13/ | of Earliest Transac<br>/2020            | ction (Month/E                    | )ay/Year)  |   | Chief Exec                                 | utive Officer                                   |  |  |  |  |
|  |  |          |                   |   | Original Filed                    | (Month/Day/Year)   | 6. Individual or Joint/Group Filing (Check Applicable                   |  |   |  |  |  |  |
| (Street)   |  | 02120    |                   |   |                                   |  | Line)   | Form filed by One                          | e Reporting Pers                                | on                                     |  |  |  |
| CAMBRIDGE  | MA   | 02139    |                   |   |                                   |  |   | Form filed by Mor                          |   |  |  |  |  |
| (City)   | (State)  | (Zip)    |                   |   |                                   |  |   | Person                                     |   |  |  |  |  |
|  | Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned |          |                   |   |                                   |  |   |  |   |  |  |  |  |
| 1. Title of Security (Instr. 3)<br>2. Transa<br>Date<br>(Month/L |  |          |                   | 2A. Deemed<br>Execution Date,<br>if any | 3.<br>Transaction<br>Code (Instr. | 4. Securities Acquired (A)<br>Disposed Of (D) (Instr. 3, 4 |   | 5. Amount of<br>Securities<br>Beneficially | 6. Ownership<br>Form: Direct<br>(D) or Indirect | 7. Nature of<br>Indirect<br>Beneficial |  |  |  |

|  | (Month/Day/Year) | if any<br>(Month/Day/Year) | Code (Instr.<br>8) |   |        |               |         | Beneficially<br>Owned Following<br>Reported | (D) or Indirect<br>(I) (Instr. 4) | Beneficial<br>Ownership<br>(Instr. 4) |  |  |
|--|------------------|----------------------------|--------------------|---|--------|---------------|---------|---|-----------------------------------|---------------------------------------|--|--|
|  |                  |                            | Code               | v | Amount | (A) or<br>(D) | Price   | Transaction(s)<br>(Instr. 3 and 4)          |                                   | (1150.4)                              |  |  |
| Common stock   | 04/13/2020       |                            | М                  |   | 12,379 | A             | (1)     | 54,101                                      | D                                 |                                       |  |  |
| Common stock   | 04/14/2020       |                            | F                  |   | 3,673  | D             | \$40.64 | 50,428                                      | D                                 |                                       |  |  |
| Table II. Devivative Convision Annuired Dispaced of an Development |                  |                            |                    |   |        |               |         |   |                                   |                                       |  |  |

## 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 Date,<br>if any<br>(Month/Day/Year) | 4.<br>Transa<br>Code (<br>8) |   | of<br>Der<br>Sec<br>Acq<br>(A)<br>Disj | umber<br>ivative<br>urities<br>juired<br>or<br>posed<br>D) (Instr.<br>and 5) | 6. Date Exercisable an<br>Expiration Date<br>(Month/Day/Year) |                    | e of Securities<br>ear) Underlying |  | 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<br>Transaction(s)<br>(Instr. 4) | 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 |   |  |  |  |
| Performance<br>share units                          | (1)   | 04/13/2020                                 |   | М                            |   |  | 12,379   | (2)   | (2)                | Common<br>stock                    | 12,379                                 | \$ <mark>0</mark>                                   | 24,759   | D  |  |

Explanation of Responses:

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

2. The PSUs vest as to one-third of the underlying shares of common stock, upon the achievement of each of three specified research, regulatory and commercial milestones, subject to continued service. The performance criteria for the specified commercial milestone was determined to have been met on April 13, 2020, resulting in the vesting of the PSUs as to one-third of the underlying shares of common stock on that date. Vested shares will be delivered to the reporting person within three business days after such shares become vested.

## **Remarks:**

/s/ William Cook, as Attorneyin-fact for Jacqualyn Fouse 04/1

04/15/2020

\*\* 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.