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, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

| OMB APPROVAL | | | | | | | | |
|--------------------------|----------------------|--|--|--|--|--|--|--|
| OMB Number: | 3235-0287 | | | | | | | |
| Expires: | December 31, 2014 | | | | | | | |
| Estimated average burden | | | | | | | | |
| hours per response | 0.5 | | | | | | | |

| 1. Name and Address of Reporting Person* Biller Scott | | | 2. Issuer Name and Ticker or Trading Symbol AGIOS PHARMACEUTICALS INC [AGIO] | Issue | 5. Relationship of Reporting Person(s) to Issuer | | | | |
|---|---------------------------------------|---------------------------------------|---|--|--|--|--|--|--|
| SIDNEY S | (First) S PHARMACE TREET, 2ND F | (Middle) UTICALS, INC., 38 LOOR | 3. Date of Earliest Transaction (Month/Day/Year) 02/03/2014 | X | (Check all applicable) Director X Officer (give title below) Chief Scientific Officer | | | | |
| (Street) CAMBRIDGE MA 02139 (City) (State) (Zip) | | | 4. If Amendment, Date of Original Filed (Month/Day/Year) | 6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person | | | | | |

| 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. Transac Code (Instr. 8) | | 4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | | | Securities Beneficially Owned | 6. Ownership Form: Direct (D) | 7. Nature of Indirect Beneficial Ownership | | |
| | | | Code | V | Amount | (A) or (D) | Price | Following Reported Transaction(s) (Instr. 3 and 4) | or Indirect (I) (Instr. 4) | (Instr. 4) | | |
| Common Stock | 02/03/2014 | | M ⁽¹⁾ | | 6,000 | Α | \$ 0.4675 | 6,000 | D | | | |
| Common Stock | 02/03/2014 | | S ⁽²⁾ | | 6,000 | D | \$ 25.966 ⁽³⁾ | 0 | 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. Transac Code (Instr. 8 | ransaction Number of Derivative | | 6. Date Exercisable and Expiration Date (Month/Day/Year) | | 7. Title and Amount of Underlying Securities (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 of Derivative Security: Direct (D) or Indirect (I) (Instr. 4) | 11. Nature of Indirect Beneficial Ownership (Instr. 4) | |
| | | | | Code | v | (A) | (D) | Date Exercisable | Expiration Date | Title | Amount or Number of Shares | | | | |
| Exercise of Stock Option | \$ 0.4675 | 02/03/2014 | | м ⁽¹⁾ | | | 6,000 | (4) | 12/06/2020 | Common Stock | 6,000 | \$ 0 | 246,090 | D | |

Explanation of Responses:

- 1. This exercise was effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person.
- 2. This sale was effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person.
- 3. The price reported is the weighted average of the shares sold. The shares were sold at varying prices in the range of \$25.07 to \$27.13. The reporting person undertakes, upon request by the staff of the Securities and Exchange Commission, the issuer, or a security holder of the issuer, to provide full information regarding the number of shares sold at each separate price.
- 4. This option was granted on December 7, 2010. The shares underlying this option vest as to 25% of the shares on September 20, 2011, with the remaining 75% vesting in 36 equal monthly installments thereafter.

/s/ Glenn Goddard, as
Attorney-in-Fact for Scott
Biller

** Signature of Reporting
Date

Person

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.