## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

## INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIESM

3235-0104 Number: December 31, Expires: Estimated average burden hours per response 0.5

OMB

OMB APPROVAL

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

1. Name and Address of Reporting Person*	2. Date of Event Requiring	3. Issuer Name <b>and</b> Ticker or Trading Symbol AGIOS PHARMACEUTICALS INC [AGIO]			
Flagship Ventures Fund 2007, L.P.	Statement (Month/Day/Year) 07/23/2013	4. Relationship of Reporting Person(s)  5. If Amendment, Date of Original Filed (Month/Day/Year)			
(Last) (First) (Middle) ONE MEMORIAL DRIVE, 7TH FLOOR		Officer (give title below)  Classical applicable)  Other (specify below)  Check all applicable)  Other (check Applicable Line)  Form filed by One Reporting Person			
(Street) CAMBRIDGE MA 02142		X Form filed by More than One Reporting Person			
(City) (State) (Zip)					

Table I - Non-Derivative Securities Beneficially Owned					
1. Title of Security (Instr. 4)		3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)		

Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)								
1. Title of Derivative Security (Instr. 4)	Exercisable and		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Conversion or Excercise	5. Ownership Form: Direct (D)	6. Nature of Indirect Beneficial Ownership	
	Date Exercisable	Expiration Date	Title	Amount or Number of SharesM	Price of Derivative Security	or Indirect (I) (Instr. 5)	(Instr. 5)	
Series A Convertible Preferred Stock	(1)	(1)	Common Stock	3,636,362	<b>\$</b> <sup>(1)</sup>	D <sup>(2)</sup>		
Series C-2 Convertible Preferred Stock	(3)	(3)	Common Stock	224,374	\$ (3)	D <sup>(2)</sup>		

## **Explanation of Responses:**

- 1. The Series A Convertible Preferred Stock is convertible into Common Stock on a 1-for-2.75 basis into the number of shares of Common Stock as shown in column 3 at any time at the holder's election and automatically upon the closing of the Issuer's initial public offering. The shares have no expiration date.
- 2. These shares are held by Flagship Ventures Fund 2007, L.P. ("Flagship 2007"). Flagship Ventures 2007 General Partner, LLC ("Flagship 2007 LLC") is the general partner of Flagship 2007. Noubar B. Afeyan Ph.D. and Edwin M. Kania, Jr. are the managers of Flagship 2007 LLC. Flagship 2007 LLC and each of these individuals may be deemed to share voting and investment power with respect to all shares held by Flagship 2007. Each of the filing persons disclaims beneficial ownership of the shares except to the extent of any pecuniary interest therein.
- 3. The Series C-2 Convertible Preferred Stock is convertible into Common Stock on a 1-for-2.75 basis into the number of shares of Common Stock as shown in column 3 at any time at the holder's election and automatically upon the closing of the Issuer's initial public offering. The shares have no expiration date.

By: /s/ Noubar B. Afeyan Ph. D., for Flagship Ventures Fund 2007, L.P. as Manager of Flagship Ventures 2007 General Partner LLC, its General Partner	07/23/2013
** Signature of Reporting Person	Date
By: /s/ Noubar B. Afeyan Ph. D., as Manager of Flagship Ventures 2007 General Partner LLC	07/23/2013
** Signature of Reporting Person	Date
By: /s/ Noubar B. Afeyan Ph. D.	07/23/2013
** Signature of Reporting Person	Date
By: /s/ Edwin M. Kania, Jr.  ** Signature of Reporting Person	<u>07/23/2013</u> Date

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

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.

<sup>\*</sup> If the form is filed by more than one reporting person, see Instruction 5(b)(v).

<sup>\*\*</sup> 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.