FORM 3

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

## INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

OMB APPROVAL							
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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

GLAXOSMITHKLINE PLC	2. Date of Event Requiring Statement (Month/Day/Year) 06/28/2017  3. Issuer Name and Ticker or Trading Symbol AILERON THERAPEUTICS INC [ ALRN ]									
(Last) (First) (Middle) 980 GREAT WEST ROAD			Relationship of Reporting Person(s) to Issuer (Check all applicable)  Director X 10% Owner		(Moi	5. If Amendment, Date of Original Filed (Month/Day/Year)				
(Street) BRENTFORD MIDDLESEX  TW8 9GS			Officer (give title below)	Other (spec below)	App	6. Individual or Joint/Group Filing (Check Applicable Line)  X Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City) (State) (Zip)										
Table I - Non-Derivative Securities Beneficially Owned										
1. Title of Security (Instr. 4)			2. Amount of Securities Beneficially Owned (Instr. 4)  3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)		t (D) (Instr	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)	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Conversion or Exercise	5. Ownership Form:	6. Nature of Indirect Beneficial Ownership (Instr. 5)			
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	Price of Derivative Security	Direct (D) or Indirect (I) (Instr. 5)				
Series D Preferred Stock	(1)	(1)	Common Stock	682,476	(1)	D <sup>(5)</sup>				
Series E-2 Preferred Stock	(2)	(2)	Common Stock	148,088	(2)	D <sup>(5)</sup>				
Series E-3 Preferred Stock	(3)	(3)	Common Stock	128,448	(3)	D <sup>(5)</sup>				
Series F Preferred Stock	(4)	(4)	Common Stock	199,173	(4)	D <sup>(5)</sup>				

## Explanation of Responses:

- 1. The Series D Preferred Stock is convertible into Common Stock on 9.937-for-one basis into the number of share of Common Stock 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. The Series E-2 Preferred Stock is convertible into Common Stock on 9.937-for-one basis into the number of share of Common Stock 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.
- 3. The Series E-3 Preferred Stock is convertible into Common Stock on 9.937-for-one basis into the number of share of Common Stock 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.
- 4. The Series F Preferred Stock is convertible into Common Stock on 9.937-for-one basis into the number of share of Common Stock 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.
- 5. The shares reported herein are held of record by S.R. One, Limited, an indirect, wholly-owned subsidiary of GlaxoSmithKline plc (the "Reporting Person").

/s/ Victoria Whyte 06/28/2017

\*\* Signature of Reporting Person 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 5 (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.