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

Shanafelt Armen	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) C/O LILLY VENTURES			4. Relationship of Reporting Perso (Check all applicable) X Director X	n(s) to Issue	(Mor	Amendment, Da th/Day/Year)	ate of Original Filed
115 WEST WASHINGTON ST. SUITE 1680-SOUTH			Officer (give title below)	Other (spe- below)	Appli	cable Line)	/Group Filing (Check
(Street) INDIANAPOLIS IN 46204							y More than One
(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 (I or Indirect (I) (Instr. 5)		(D) (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	(2)	(2)	Common Stock	341,238	(2)	I	See Footnote ⁽¹⁾
Series E-2 Preferred Stock	(3)	(3)	Common Stock	191,946	(3)	I	See Footnote ⁽¹⁾
Series E-3 Preferred Stock	(4)	(4)	Common Stock	166,489	(4)	I	See Footnote ⁽¹⁾
Series F Preferred Stock	(5)	(5)	Common Stock	145,312	(5)	I	See Footnote ⁽¹⁾

Explanation of Responses:

- 1. These shares are held directly by Lilly Ventures Fund I LLC, or LVFI. LV Management Group, LLC, or LVMG, is the management company for LVFI and as such may be deemed to indirectly beneficially own the shares held by LVFI. LVMG's voting and dispositive decisions with respect to the shares held by LVFI are made by LVMG's management committee, which includes the Reporting Person. The Reporting Person disclaims beneficial ownership of the reported securities except to the extent of his respective proportionate pecuniary interest therein.
- 2. The Series D Preferred Stock is convertible into Common Stock on a 9.937-for-one basis into the number of shares 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-2 Preferred Stock is convertible into Common Stock on a 9.937-for-one basis into the number of shares 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 E-3 Preferred Stock is convertible into Common Stock on a 9.937-for-one basis into the number of shares 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 Series F Preferred Stock is convertible into Common Stock on a 9.937-for-one basis into the number of shares 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.

Remarks:

/s/ Armen B. Shanafelt

06/28/2017

** 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 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.