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(b) of the Investment Company Act of 1940

			or Sec	tion 30(h) of	the Investment Company Act of 2	1940				
MCGUIRE TERRANCE			2. Date of Even Requiring State (Month/Day/Yea 11/15/2017	ment	3. Issuer Name and Ticker or Trading Symbol Arsanis, Inc. [ASNS]					
(Last) (First) (Middle) C/O POLARIS PARTNERS					4. Relationship of Reporting Person(s) to (Check all applicable) X Director X 10%			5. If Amendment, Date of Original Filed (Month/Day/Year)		
FLOOR	NA PARK DR	IVE, 101H			Officer (give title below)	Other (specify below)		Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person		
(Street) BOSTON MA 02210			_						by More than One	
(City)	(State)	(Zip)								
			Table I - No	n-Derivat	ive Securities Beneficia	lly Owned				
1. Title of Security (Instr. 4)					2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownershi Form: Direc or Indirect (I (Instr. 5)		4. Nature of Indirect Beneficial Ownership (Instr. 5)		
					e Securities Beneficially Ints, options, convertible		·s)			
1. Title of Derivative Security (Instr. 4)			2. Date Exerc Expiration Day/	cisable and			4. Convers	ise Form:	6. Nature of Indirect Beneficial Ownership (Instr. 5)	
			Date Exercisable	Expiration Date	Title	Amount or Number of Shares	Price of Derivativ Security	ve or Indirect		
Series A-1 Convertible Preferred Stock			(1)	(1)	Common Stock	18,848	(1)	I	See Footnotes ⁽²⁾⁽³⁾	
Series A-1 Convertible Preferred Stock		(1)	(1)	Common Stock	367	(1)	I	See Footnote ⁽⁴⁾		
Series A-1 Convertible Preferred Stock		(1)	(1)	Common Stock	129	(1)	I	See Footnote ⁽⁵⁾		
Series A-1 Convertible Preferred Stock		ferred Stock	(1)	(1)	Common Stock	188	(1)	I	See Footnote ⁽⁶⁾	
Series A-2 Convertible Preferred Stock		(7)	(7)	Common Stock	243,385	(7)	I	See Footnotes ⁽²⁾⁽³⁾		
Series A-2 Convertible Preferred Stock		(7)	(7)	Common Stock	4,743	(7)	I	See Footnote ⁽⁴⁾		
Series A-2 Convertible Preferred Stock		(7)	(7)	Common Stock	1,667	(7)	I	See Footnote ⁽⁵⁾		
Series A-2 Convertible Preferred Stock		(7)	(7)	Common Stock	2,433	(7)	I	See Footnote ⁽⁶⁾		
Series B Convertible Preferred Stock		(8)	(8)	Common Stock	317,376	(8)	I	See Footnotes ⁽²⁾⁽³⁾		
Series B Convertible Preferred Stock		(8)	(8)	Common Stock	6,185	(8)	I	See Footnote ⁽⁴⁾		
Series B Convertible Preferred Stock		(8)	(8)	Common Stock	2,173	(8)	I	See Footnote ⁽⁵⁾		
Series B Convertible Preferred Stock		(8)	(8)	Common Stock	3,173	(8)	I	See Footnote ⁽⁶⁾		
Series C Convertible Preferred Stock		(9)	(9)	Common Stock	110,312	(9)	I	See Footnotes ⁽²⁾⁽³⁾		
Series C Convertible Preferred Stock		(9)	(9)	Common Stock	2,150	(9)	I	See Footnotes ⁽⁴⁾		
Series C Convertible Preferred Stock		(9)	(9)	Common Stock	755	(9)	I	See Footnote ⁽⁵⁾		
Series C Convertible Preferred Stock		(9)	(9)	Common Stock	1,102	(9)	I	See Footnote ⁽⁶⁾		
Series D Convertible Preferred Stock		(10)	(10)	Common Stock	631,041	(10)	I	See Footnotes ⁽²⁾⁽³⁾		
Series D Convertible Preferred Stock		(10)	(10)	Common Stock	12,298	(10)	I	See Footnotes ⁽⁴⁾		
Series D Convertible Preferred Stock			(10)	(10)	Common Stock	4,322	(10)	I	See Footnote ⁽⁵⁾	
Series D Convertible Preferred Stock			(10)	(10)	Common Stock	6.310	(10)	T	See Footpote(6)	

Explanation of Responses:

^{1.} The Series A-1 Convertible Preferred Stock is convertible into Common Stock on a 0.29300-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 without payment of further consideration. The shares have no expiration date.

^{2.} These shares are owned directly by Polaris Venture Partners V, L.P. ("Polaris V"), whose general partner is Polaris Venture Management Co. V, L.L.C. ("Polaris Management"). Each of Jonathan A. Flint ("Flint") and the Reporting Person, are the managing members of Polaris Management and may each be deemed to share voting and dispositive power with respect to the shares held by each of Polaris V, Polaris Venture Partners Entrepreneurs' Fund V, L.P. ("Polaris Entrepreneurs' V"), Polaris Venture Partners Founders' Fund V, L.P. ("Polaris Founders' V") and Polaris Venture Partners Special Founders' Fund V, L.P. ("Polaris Special Founders' V") and together with Polaris V, Polaris Entrepreneurs' V and Polaris Founders' V, the "Polaris V Funds").

- 3. (Continued from footnote 2) Polaris Management may be deemed to have sole power to vote and dispose of the shares held by the Polaris V Funds. Each of Flint, the Reporting Person and Polaris Management disclaims beneficial ownership of these securities and this report shall not be deemed to be an admission that any of them is the beneficial owner of such securities for purposes of Section 16 or any other purpose, except to the extent of their respective pecuniary interests therein.
- 4. These shares are owned directly by Polaris Entrepreneurs' V, whose general partner is Polaris Management. Each of Flint and the Reporting Person are the managing members of Polaris Management and may each be deemed to share voting and dispositive power over the shares held by each of the Polaris V Funds. Polaris Management may be deemed to have sole power to vote and dispose of the shares held by the Polaris V Funds. Each of Flint, the Reporting Person and Polaris Management disclaims beneficial ownership of these securities and this report shall not be deemed to be an admission that any of them is the beneficial owner of such securities for purposes of Section 16 or any other purpose, except to the extent of their respective pecuniary interests therein.
- 5. These shares are owned directly by Polaris Founders' V, whose general partner is Polaris Management. Each of Flint and the Reporting Person are the managing members of Polaris Management and may each be deemed to share voting and dispositive power over the shares held by each of the Polaris V Funds. Polaris Management may be deemed to have sole power to vote and dispose of the shares held by the Polaris V Funds. Each of Flint, the Reporting Person and Polaris Management disclaims beneficial ownership of these securities and this report shall not be deemed to be an admission that any of them is the beneficial owner of such securities for purposes of Section 16 or any other purpose, except to the extent of their respective pecuniary interests therein.
- 6. These shares are owned directly by Polaris Special Founders' V, whose general partner is Polaris Management. Each of Flint and the Reporting Person are the managing members of Polaris Management and, may each be deemed to share voting and dispositive power over the shares held by each of the Polaris V Funds. Polaris Management may be deemed to have sole power to vote and dispose of the shares held by the Polaris V Funds. Each of Flint, the Reporting Person and Polaris Management disclaims beneficial ownership of these securities and this report shall not be deemed to be an admission that any of them is the beneficial owner of such securities for purposes of Section 16 or any other purpose, except to the extent of their respective pecuniary interests therein.
- 7. The Series A-2 Convertible Preferred Stock is convertible into Common Stock on a 0.35785-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 without payment of further consideration. The shares have no expiration date.
- 8. The Series B Convertible Preferred Stock is convertible into Common Stock on a 0.44650-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 without payment of further consideration. The shares have no expiration date.
- 9. The Series C Convertible Preferred Stock is convertible into Common Stock on a 0.49832-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 without payment of further consideration. The shares have no expiration date.
- 10. The Series D Convertible Preferred Stock is convertible into Common Stock on a 0.29300-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 without payment of further consideration. The shares have no expiration date.

Remarks:

Exhibit Index: 24.1 Power of Attorney

/s/ Mike Gray, attorney-in-fact 11/15/2017

** 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.

LIMITED POWER OF ATTORNEY FOR SECTION 16 REPORTING OBLIGATIONS

Know all by these presents, that the undersigned hereby makes, constitutes and appoints each of Rene Russo and Mike Gray, signing singly and each acting individually, as the undersigned's true and lawful attorney-in-fact with full power and authority as hereinafter described to:

- (1) execute for and on behalf of the undersigned, in the undersigned's capacity as an officer and/or director of Arsanis, Inc. (the "Company"), Forms 3, 4, and 5 (including any amendments thereto) in accordance with Section 16(a) of the Securities Exchange Act of 1934 and the rules thereunder (the "Exchange Act");
- (2) do and perform any and all acts for and on behalf of the undersigned which may be necessary or desirable to prepare, complete and execute any such Form 3, 4, or 5, prepare, complete and execute any amendment or amendments thereto, and timely deliver and file such form with the United States Securities and Exchange Commission (the "SEC") and any stock exchange or similar authority, including without limitation the filing of a Form ID or any other application materials to enable the undersigned to gain or maintain access to the Electronic Data Gathering, Analysis and Retrieval system of the SEC;
- (3) seek or obtain, as the undersigned's representative and on the undersigned's behalf, information regarding transactions in the Company's securities from any third party, including brokers, employee benefit plan administrators and trustees, and the undersigned hereby authorizes any such person to release any such information to such attorney-in-fact and approves and ratifies any such release of information; and
- (4) take any other action of any type whatsoever in connection with the foregoing which, in the opinion of such attorney-in-fact, may be of benefit to, in the best interest of, or legally required by, the undersigned, it being understood that the documents executed by such attorney-in-fact on behalf of the undersigned pursuant to this Power of Attorney shall be in such form and shall contain such terms and conditions as such attorney-in-fact may approve in such attorney-in-fact's discretion.

The undersigned hereby grants to each such attorney-in-fact full power and authority to do and perform any and every act and thing whatsoever requisite, necessary, or proper to be done in the exercise of any of the rights and powers herein granted, as fully to all intents and purposes as the undersigned might or could do if personally present, with full power of substitution or revocation, hereby ratifying and confirming all that such attorney-in-fact, or such attorney-in-fact's substitute or substitutes, shall lawfully do or cause to be done by virtue of this power of attorney and the rights and powers herein granted. The undersigned acknowledges that the foregoing attorneys-in-fact, in serving in such capacity at the request of the undersigned, are not assuming nor relieving, nor is the Company assuming nor relieving, any of the undersigned's responsibilities to comply with Section 16 of the Exchange Act. The undersigned acknowledges that neither the Company nor the foregoing attorneys-in-fact assume (i) any liability for the undersigned's responsibility to comply with the requirement of the Exchange Act, (ii) any liability of the undersigned for any failure to comply with such requirements, or (iii) any obligation or liability of the undersigned for profit disgorgement under Section 16(b) of the Exchange Act.

This Power of Attorney shall remain in full force and effect until the undersigned is no longer required to file Forms 3, 4, and 5 with respect to the undersigned's holdings of and transactions in securities issued by the Company, unless earlier revoked by the undersigned in a signed writing delivered to the foregoing attorneys-in-fact.

IN WITNESS WHEREOF, the undersigned has caused this Power of Attorney to be executed as of this 7th day of November, 2017.

/s/ Terrance McGuire
Signature
Terrance McGuire
Print Name