(Last)

(First)

601 LEXINGTON AVE, 54TH FLOOR

(Middle)

FORM 3

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

## INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF **SECURITIES**

OMB APPROVAL OMB Number: 3235-0104 Estimated average burden

0.5

hours per response:

					16(a) of the Securities Exchange A						
1. Name and Address of Reporting Person*  ORBIMED ADVISORS LLC		Re (M	2. Date of Event Requiring Statement (Month/Day/Year) 11/15/2017		3. Issuer Name and Ticker or Trading Symbol Arsanis, Inc. [ ASNS ]						
(Last) (First) (Middle) 601 LEXINGTON AVE., 54TH FLOOR  (Street) NEW YORK NY 10022					Relationship of Reporting Pers (Check all applicable)     Director X	. ,		(Mon	5. If Amendment, Date of Original Filed (Month/Day/Year)		
					Officer (give title below)	Other (spe below)	(Specify		Individual or Joint/Group Filing (Check Applicable Line)     Form filed by One Reporting Person     Form filed by More than One Reporting Person		
(City) (Sta	te) (Zip)								Reporting r	-eison	
		Ta	able I - No	n-Derivat	tive Securities Beneficial	ly Owned					
1. Title of Security (Instr. 4)					. Amount of Securities deneficially Owned (Instr. 4) 3. Ownersl Form: Dire or Indirect (Instr. 5)		cṫ (D)			t Beneficial Ownership	
					e Securities Beneficially ants, options, convertible		s)				
Title of Derivative Security (Instr. 4)		[1	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securit Underlying Derivative Securit		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 A-1 Convertible Preferred Stock			(1)	(1)	Common Stock	19,533	(1)	)	I	See Footnotes <sup>(6)(7)</sup>	
Series A-2 Convertible Preferred Stock			(2)	(2)	Common Stock	252,230	(2)		I	See Footnotes <sup>(6)(7)</sup>	
Series B Convertible Preferred Stock			(3)	(3)	Common Stock	328,909	(3)		I	See Footnotes <sup>(6)(7)</sup>	
Series C Convertible Preferred Stock			(4)	(4)	Common Stock	114,320	(4)		I	See Footnotes(6)(7)	
Series D Convertibl	le Preferred Stock		(5)	(5)	Common Stock	653,974	(5)		I	See Footnotes <sup>(6)(7)</sup>	
1. Name and Address of ORBIMED AD											
(Last) 601 LEXINGTON	(First) AVE., 54TH FLOOR	(Middle)									
(Street) NEW YORK	NY	10022		-							
(City)	(State)	(Zip)									
1. Name and Address of OrbiMed Capital	· -										
(Last) (First) (Middle) 601 LEXINGTON AVE, 54TH FLOOR		(Middle)									
(Street) NEW YORK	NY	10022									
(City)	(State)	(Zip)									
1. Name and Address of ISALY SAMUI											

(Street) NEW YORK	NY	10022
(City)	(State)	(Zip)

## **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. 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.
- 3. 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.
- 4. 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.
- 5. 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.
- 6. The reported securities are held of record by OrbiMed Private Investments IV, LP ("OPI IV"). OrbiMed Capital GP IV LLC ("GP IV") is the sole general partner of OPI IV, and OrbiMed Advisors LLC ("Advisors"), a registered adviser under the Investment Advisers Act of 1940, as amended, is the sole managing member of GP IV. Samuel D. Isaly ("Isaly"), a natural person, is the managing member of, and owner of a controlling interest in, Advisors. By virtue of such relationships, GP IV, Advisors and Isaly may be deemed to have voting and investment power with respect to the securities held by OPI IV. The Reporting Persons have designated a representative, currently Carl Gordon, a member of Advisors, to serve on the Issuer's board of directors.
- 7. This report on Form 3 is jointly filed by GP IV, Advisors and Isaly. Each of the reporting persons disclaims beneficial ownership of the securities reported herein for purposes of Rule 16a-1(a) under the Securities Exchange Act of 1934, as amended (the "Exchange Act"), except to the extent of its or his pecuniary interest therein, if any. This report on Form 3 shall not be deemed an admission that any of the reporting persons is a beneficial owner of such securities for the purpose of Section 16 of the Exchange Act, or for any other purpose.

## Remarks:

/s/ Samuel D. Isaly, as managing member of OrbiMed 11/15/2017 Advisors LLC

/s/ Samuel D. Isaly, as

managing member of OrbiMed

Advisors LLC, the managing 11/15/2017

member of OrbiMed Capital

GP IV LLC

<u>/s/ Samuel D. Isaly</u> <u>11/15/2017</u>

\*\* 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.