FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL								
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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

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

Name and Address of Reporting Person* IONIS PHARMACEUTICALS INC					2. Issuer Name and Ticker or Trading Symbol AKCEA THERAPEUTICS, INC. [AKCA]										tionship of F all applicab Director	le)	Person X	10% Ow	ner	
(Last) 2855 GA	(F ZELLE CC	First) OURT	(Middle)		3. Date of Earliest Transaction (Month/Day/Year) 07/19/2017 Officer (give title below) below) Other (s											pecify				
(Street) CARLSE (City)		CA State)	92010 (Zip)	_	4. If Amendment, Date of Original Filed (Month/Day/Year) 6.									6. Indiv	dividual or Joint/Group Filing (Check Applicable Line) Form filed by One Reporting Person Form filed by More than One Reporting Person					
			Table I - Non-	Deriva	ative	Sec	urities Ad	cquire	d, D	isp	osed o	of, or E	Bene	ficially O	wned					
		2. Transaction Date (Month/Day/Year)		Ex if a	2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 a						6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)			
							ie V	,	Amount		A) or D)	Price	Transaction (Instr. 3 and				(111511.4)			
Common Stock			07/19/	19/2017						28,884	,540	A	(1)	28,884	4,540		D			
Common Stock			07/19/	/19/2017				2)		13,438	339 A (2)		42,322,879		D					
Common Stock			07/19/	19/2017			p(3)		3,125,	,000 A \$8		\$8	45,447,879		D				
			Table II - D (e				rities Acq , warrants								ned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. r) 8)		Derivative		6. Date Expira (Monti	tion D	ate	ble and	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		derlying curity	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transact	re es ally g	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)	
				Code	v	(A)	(D)	Date Exerci	sable		opiration ate	Title	Nu	nount or imber of ares		(Instr. 4)	(0)			
Series A Preferred Stock	(1)	07/19/2017		С			28,884,540	(1)		(1)	Commo Stock	n 28	3,884,540	\$0.00	0		D		

Explanation of Responses:

- 1. Automatic conversion, in connection with the Issuer's initial public offering, of preferred stock into shares of common stock on a one-for-one basis. The shares have no expiration date.
- 2. Shares issued in satisfaction of the Issuer's obligations to the Reporting Person pursuant to a line of credit.
- 3. The shares were purchased at the Issuer's initial public offering.

Remarks:

<u>/s/ By Elizabeth L. Hougen,</u> Chief Finacial Officer of Ionis

** Signature of Reporting Person

07/21/2017

Pharmaceuticals, Inc.

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 4 (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.