FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

l	OMB APPRO	VAL				
	OMB Number:	3235-0287				
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l	hours per response:	0.5				

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

1. Name and Address of Reporting Person* IONIS PHARMACEUTICALS INC							2. Issuer Name and Ticker or Trading Symbol AKCEA THERAPEUTICS, INC. [AKCA]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director X 10% Owner					
(Last) (First) (Middle) 2855 GAZELLE COURT						3. Date of Earliest Transaction (Month/Day/Year) 10/17/2018									Offic belo	cer (give title ow)		Other below)	(specify	
(Street) CARLSBAD CA 92010 (City) (State) (Zip)					4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
1. Title of Security (Instr. 3) 2. Transac Date (Month/Da						Execution Date,			3. Transaction Code (Instr. 8) 4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4) 5)					d Secu Bene	ficially ed Following	Form (D) o	vnership n: Direct r Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership		
										v	Amount		A) or D)	Price	Trans	saction(s) . 3 and 4)			(Instr. 4)	
Common	Common Stock			10/17	/2018	2018		J ⁽¹⁾		1,671,8	49	A	(1	67	67,383,965		D			
		Та									sed of, onvertib				y Owned	I				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deem Execution if any (Month/Da	Date,	4. Transaction Code (Instr. 8)		n of		6. Date Exercisa Expiration Date (Month/Day/Year		е	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)			8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Owner Form: Direct or Ind (I) (Ins	wnership	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisal		Expiration Date	Title	or Num of Shai	ber						

Explanation of Responses:

1. Shares issued in satisfaction of the Issuer's obligations to the Reporting Person pursuant to that certain License Agreement, dated March 14, 2018, between the Issuer and the Reporting Person.

Remarks:

/s/ By Elizabeth L. Hougen, Chief Finacial Officer of Ionis 10/18/2018 Pharmaceuticals, Inc.

** 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 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.