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## FORM 4

# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

### STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

OMB APPRO	DVAL
OMB Number:	3235-0287
Estimated average burd	en
hours per response:	0.5

1. Name and Address of Reporting Person* IONIS PHARMACEUTICALS INC			2. Issuer Name and Ticker or Trading Symbol <u>AKCEA THERAPEUTICS, INC.</u> [ AKCA ]		ionship of Reporting all applicable) Director		i(s) to Issuer 10% Owner		
(Last) 2855 GAZELL	(First) E COURT	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 03/29/2019		Officer (give title below)		Other (specify below)		
			4. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Check A Line)						
(Street) CARLSBAD	CA	92010		X	Form filed by One Reporting Person Form filed by More than One Reporting				
(City)	(State)	(Zip)			Person				

### Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)			4. Securities A Disposed Of (I 5)			Securities Beneficially	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(11311.4)
Common Stock	03/29/2019		<b>J</b> <sup>(1)</sup>		2,837,373	Α	(1)	70,221,338	D	

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

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. Transa Code ( 8)		of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exerc Expiration Da (Month/Day/Y	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v			Date Exercisable	Expiration Date	Title	Amount or Number of Shares			

Explanation of Responses:

1. Shares issued in satisfaction of the Issuer's obligations to the Reporting Person pursuant to that certain Development, Commercialization and License Agreement, dated December 18, 2015, between the Issuer and the Reporting Person.

#### **Remarks:**

<u>/s/ By Elizabeth L. Hougen, Sr.</u> <u>Vice President, Finance and</u> <u>Chief Finacial Officer of Ionis</u> <u>Pharmaceuticals, Inc.</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 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.