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

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1. Name and Address of Reporting Person* Boyce Sarah						2. Issuer Name and Ticker or Trading Symbol IONIS PHARMACEUTICALS INC [IONS]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner					
<u> </u>	<u>Jurun</u>													Officer	r (give title		Other (s		
(Last) C/O ION	,	irst) 1ACEUTICALS	(Middle)		3. Date of Earliest Transaction (Month/Day/Year) 01/01/2017									Chief Business Officer					
2855 GA	<u> </u>																		
(Street) CARLSBAD CA 92010				4.1	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						
(City)	(S	tate)	(Zip)											1 613011					
		Tal	ble I - Non	-Deriv	ativ	e Se	curitie	s Ac	quired,	Dis	posed o	f, or Ber	neficiall	y Owned					
1. Title of Security (Instr. 3) 2. Transa Date (Month/D					Execution Date,			Transaction Disposed Code (Instr.			ies Acquired (A) or Of (D) (Instr. 3, 4 and 5)		Beneficia Owned F	es ally Following	Form (D) o	: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership		
								Code	v	Amount	(A) or (D)	Price	Reported Transact (Instr. 3	ion(s)			(Instr. 4)		
Common Stock 01/01/.					/201	2017 01/01/2017		J ⁽¹⁾	V	992(1)	A	\$20.75	7 3,	3,130		D			
			Table II - D						,		osed of, convertib		,	Owned					
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 8)				6. Date Ex Expiration (Month/Da	Date		7. Title and Am of Securities Underlying Derivative Sec (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Numbe derivative Securities Beneficia Owned Following Reported Transactio (Instr. 4)	re es ally ng d tion(s)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)	
				c	code	v	(A)	(D)	Date Exercisable		Expiration Date	Title	Amount or Number of Shares						
Employee Stock Option (right to buy)	\$47.34	01/03/2017	01/03/201	17	A		45,225		01/03/2018	3(2)	01/02/2024	Common Stock	45,225	\$0	45,22	5	D		

Explanation of Responses:

- 1. Reporting 992 shares acquired under the Ionis Pharmaceuticals, Inc. Amended and Restated 2000 Employee Stock Purchase Plan on January 1, 2017. These 992 shares may not be sold until July 2, 2017.
- 2. Grant of 1/3/2017 to reporting person of stock options under the Ionis Pharmaceuticals, Inc. 2011 Equity Incentive Plan. 25% of the shares subject to the option vest and become exercisable on 1/3/2018. Thereafter, the remaining shares subject to the option vest and become exercisable in 36 equal monthly installments, at the rate of 11,306 shares per year. Following this transaction, the option was exercisable as to 0 on 1/3/2017.

Remarks:

/s/Sarah Boyce

01/04/2017

** 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 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.

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