FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

	OMB APPROVAL									
	OMB Number:	3235-0287								
- 1	Estimated average I	hurden								

0.5

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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).

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

1. Name and Address of Reporting Person* <u>Boyce Sarah</u>						2. Issuer Name and Ticker or Trading Symbol IONIS PHARMACEUTICALS INC I IONS								Check	all app	olicable)	g Person(s) to I	
(Last) (First) (Middle) C/O IONIS PHARMACEUTICALS, INC. 2855 GAZELLE COURT					07/	3. Date of Earliest Transaction (Month/Day/Year) 07/01/2017								X below) below) Chief Business Officer)``
(Street) CARLSBAD CA 92010 (City) (State) (Zip)					4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Indiv Line) X	vidual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person				
		Tabl	e I - No	on-Deriva	ative	Sec	uritie	s Ac	quired	l, Dis	sposed o	f, or B	enefici	ally (Owne	ed		
1. Title of Security (Instr. 3) 2. Transactic Date (Month/Day/						Execution Date,					es Acquired (A) or Of (D) (Instr. 3, 4 a		and 5) Secu Bend Own		icially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership	
									Code	v	Amount	(A) or (D)	Price		Reported Transaction(s) (Instr. 3 and 4)			(Instr. 4)
Common Stock 07/01/20						017 07/01/2017		J ⁽¹⁾	V	17(1)	A	\$40.6	5,269		5,269	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	Date (Month/Day/Year) if	Execution if any	Execution Date, if any		I. Transaction Code (Instr. 3)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		Exerc ion Da /Day/Y		7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)			vative (9. Number of derivative Securities Beneficially Owned Following Reported Transaction(: (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercis	able	Expiration Date	Title	Number of Shares					

Explanation of Responses:

1. Reporting 17 shares acquired under the Ionis Pharmaceuticals, Inc. Amended and Restated 2000 Employee Stock Purchase Plan on July 1, 2017. These 17 shares may not be sold until January 2, 2018.

Remarks:

/s/B. Lynne Parshall, attorneyin-fact 07/03/2017

** 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.

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.