FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

	OMB APPROVAL								
	OMB Number:	3235-0287							
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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	Sectio	n 30(l	n) of the	Ínvestme	ent C	ompany Act	of 1940							
1. Name ar		2. Issuer Name and Ticker or Trading Symbol IONIS PHARMACEUTICALS INC I IONS								5. Relationship of Reporting Person(s) to Is (Check all applicable) Director 10% O Officer (give title Other			wner						
(Last) (First) (Middle) C/O IONIS PHARMACEUTICALS, INC. 2855 GAZELLE COURT						3. Date of Earliest Transaction (Month/Day/Year) 11/16/2017								helow)		nce &	below)	opeony	
(Street) CARLSBAD CA 92010 (City) (State) (Zip)						4. If Amendment, Date of Original Filed (Month/Day/Year)								ndividual or Joint/Group Filing (Check Applicable e) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
		Tab	le I - No	on-Deri	vative	e Sec	urit	ies Ac	quired	l, Di	sposed o	of, or Be	neficial	ly Owned	d				
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/						Exe r) if a	ny	ned n Date, ay/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4			Benefic Owned	es ially Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership	
									Code	v	Amount	(A) or (D)	Price	Reporte Transac (Instr. 3	ction(s)	ion(s)		(Instr. 4)	
Common Stock 11/16/20							1/16	/2017	M ⁽¹⁾		7,000(1)) A	\$10.2	9 17,392		D			
Common Stock 11/16/20						2017 11		/2017	S ⁽¹⁾		7,000(1)) D	\$54.35	(2) 10),392		D		
		Т	able II								posed of converti			Owned			<u>'</u>		
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Execution Date, if any (Month/Day/Year)		4. Transaction Code (Instr. 8)		n of		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactic (Instr. 4)	ly	Ownershi Form: Direct (D) or Indirec (I) (Instr. 4	Beneficial Ownership t (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisa	ıble	Expiration Date	Title	Amount or Number of Shares						
Employee Stock Option (right to	\$10.29	11/16/2017	11/16	/2017	M	М		7,000	01/03/20	015	01/02/2018	Common Stock	7,000	\$0	15,000)	D		

Explanation of Responses:

- 1. Acquired as a result of exercising a stock option that was scheduled to expire on 1/2/2018. The purchase and sale reported on this Form 4 was effective pursuant to a Rule 10b5-1 Trading Plan adopted by the reporting person on 2/3/15.
- 2. The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$54.02 to \$54.58, inclusive. The reporting person undertakes to provide to Ionis Pharmaceuticals, Inc., any security holder of Ionis Pharmaceuticals, Inc. or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the ranges set forth in footnote (2) on this Form 4.

Remarks:

/s/Elizabeth L. Hougen 11/17/2017

** 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.