FORM 4

Check this box if no longer subject

to Section 16. Form 4 or Form 5 obligations may continue. See

Instruction 1(b).

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL OWNERS	HIP
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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 ar	<u>IC</u>	2. Issuer Name and Ticker or Trading Symbol IONIS PHARMACEUTICALS INC IONS]									5. Relationship of Reporti (Check all applicable) X Director X Officer (give title			g Per	10% O	wner				
(Last) (First) (Middle) C/O IONIS PHARMACEUTICALS, INC 2855 GAZELLE COURT						3. Date of Earliest Transaction (Month/Day/Year) 03/19/2020									71	below Exe	v) c Chairma	n of	below) the Board	i
(Street) CARLSBAD CA 92010				4. 1	4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person					on	
(City)	(S	tate) (2	Zip)		<u> </u>															
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
Date				2. Transaction Date (Month/Day/Ye	ar) i	2A. Deer Execution if any (Month/I	n Date	T	3. Transaction Code (Instr. 8)			4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 an				Securi Benefi Owned	cially I Following	Forn (D) c Indir	n: Direct or rect (I)	7. Nature of Indirect Beneficial Ownership
								C	Code	e V	Aı	mount	(A) or (D)	Price		Repor Transa (Instr.	action(s) . 3 and 4)		nstr. 4)	(Instr. 4)
Common Stock 03/1					3			:			1	0,000(1)	D	\$44.75	46 ⁽²⁾	6	61,545		D	
Common Stock 03/19/20				03/19/2020)				S			5,000(1)	D	\$40	6	5	56,545		D	
Common Stock 03/19/20				03/19/2020)				S			1,000(3)	D	\$45	5	6,581			I	By wife
Common Stock																70	00,391		I	By Trust
	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)	rivative Conversion Date Execution Date curity or Exercise (Month/Day/Year) if any		ecution Date,	Code 8)	ransaction of Derivati Securiti Acquire (A) or Dispose of (D) (Instr. 3 and 5)		ative rities ired osed	Expiration (Month/Dates et al., 4				Amo Secu Unde Deriv Secu 3 and	Amount or Number of	t r		9. Number derivative Securities Securities Beneficially Owned Following Reported Transactior (Instr. 4)	,	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	

Explanation of Responses:

- 1. Shares sold pursuant to a Rule 10b5-1 Trading Plan adopted by the reporting person on January 2, 2020.
- 2. The price reported in column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$44.50 to \$45.07, 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) of this Form 4.
- 3. Shares sold pursuant to a Rule 10b5-1 Trading Plan adopted by the reporting person's wife on January 2, 2020.

Remarks:

/s/Patrick R. O'Neil, attorney-

03/23/2020

in-fact

** 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.