FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

VVd3/iii/gt6/1, D.O. 200-0

	OMB APPRO	VAL			
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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* HOUGEN ELIZABETH L (Last) (First) (Middle)						Suer Name and Ticker or Trading Symbol IONIS PHARMACEUTICALS INC [IONS] Date of Earliest Transaction (Month/Day/Year)								Director X Officer below)	cable) or (give title		Owner (specify	
2855 GA	ZELLE CO	12/	12/18/2018									SVI, I mance & Gr O						
(Street) CARLSBAD CA 92010						4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable ne) X Form filed by One Reporting Person Form filed by More than One Reporting			
(City) (State) (Zip)						Person												
		Tab	le I - No	n-Deriv	vative	e Se	curitie	s Ac	quired,	Dis	posed c	of, or Be	neficia	lly Owned	d			
1. Title of Security (Instr. 3) 2. Transa Date (Month/D						ar)	2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4 5)			Benefic Owned	ies 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	tion(s)		(Instr. 4)	
Common	Stock		3/2018	3	12/18/2018		M ⁽¹⁾		2,000	(1) A	\$7.2	5 16	,774	D				
Common	Stock	12/18	8/2018	3	12/18/2018		S ⁽¹⁾		2,000	(1) D	\$52	2 14	,774	D				
Common Stock 12/1						/2018		12/19/2018			2,0630	(1) A	\$7.2	5 16	,837	D		
Common Stock 12/19/2						2018 12/19/2018		S ⁽¹⁾		2,0630	(1) D	\$52.	05 14	,774	D			
		Т	able II -									, or Ben ble secu		y Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deem Execution if any (Month/Da	Date,	4. Transactic Code (Inst 8)		on of		Expiration	6. Date Exercisa Expiration Date (Month/Day/Yea		7. Title an Amount o Securities Underlyin Derivative (Instr. 3 an	f g Security	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	Ownersh Form: Direct (D or Indirect (I) (Instr.	Beneficial Ownership t (Instr. 4)	
				Code	v	(A)	(D)	Date Exercisab		xpiration ate	Title	Amount or Number of Shares						
Employee Stock Option (right to buy)	\$7.25	12/18/2018	12/18/2	2018	M		2,000	2,000		.6 0	1/02/2019	Common Stock	2,000	\$0	2,063	D		
Employee Stock Option (right to	\$7.25	12/19/2018	12/19/	2018	M		2,063		01/03/201	.6 0	1/02/2019	Common Stock	2,063	\$0	0	D		

Explanation of Responses:

1. Acquired as a result of exercising a stock option pursuant to Rule 10b5-1 Trading Plan. The purchase and sale reported on this Form 4 was effective pursuant to Rule 10b5-1 Trading Plan adopted by the reporting person on 11/07/2018.

Remarks:

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

12/20/2018

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.