FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D	D.C.	20549
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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
OMB Number:	3235-0287								
Estimated average burden									
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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

1. Name and Address of Reporting Person* HOUGEN ELIZABETH L					2. Issuer Name and Ticker or Trading Symbol IONIS PHARMACEUTICALS INC [IONS]							S] (Ch	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner Officer (give title Other (specify					
(Last)	,	irst) 1ACEUTICALS	(Middle)		3. Date of Earliest Transaction (Month/Day/Year) 01/04/2021 X Office title below) EVP, Finance & C								below)					
2855 GAZELLE CT.				<u> </u>														
(Street)	BAD, C.	A	92010	4.	If Amendment, Date of Original Filed (Month/Day/Year)						Line	Individual or Joint/Group Filing (Check Applicable le) X Form filed by One Reporting Person Form filed by More than One Reporting Person				1		
(City)	(S	tate)	(Zip)		1.03011													
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																	
Date				Transaction te onth/Day/Y	Execution Date,		Code (Instr. 5)			Benefi	es Form ally (D) o Following (I) (In		n: Direct or Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)				
							Code		Amount	(A) or (D)		Transa	action(s) 3 and 4)					
	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)	Derivative Conversion Date Execution Date, Tr. Security or Exercise (Month/Day/Year) if any Co			Transa Code (5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			6. Date Exercisable and Expiration Date (Month/Day/Year) (Month/Day/Year) 7. Title and Am of Securities Underlying Derivative Sec (Instr. 3 and 4)			ies g Security	8. Price of Derivativ Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
				Code	v	(A)	(D)	Date Exercisable		xpiration ate	Title	Amount or Number of Shares						
Employee Stock Option (right to buy)	\$56.78	01/04/2021	01/04/2021	A		61,041		01/04/2022 ⁽¹⁾	01	1/03/2028	Common Stock	61,041	\$0.0	61,04	п	D		

Explanation of Responses:

1. Grant on 01/04/2021 to reporting person of stock options under the Ionis Pharmaceuticals, Inc. Amended and Restated 2011 Equity Incentive Plan. Following this transaction, the option was exercisable as to 0 shares on 01/04/2021. 25% of the shares subject to the option will vest and become exercisable on 01/04/2022. Thereafter, the remaining shares subject to the option will vest and become exercisable in 36 equal monthly installments over the next 3 years.

Remarks:

/s/Patrick R. O'Neil, attorneyin-fact

** Signature of Reporting Person

01/06/2021

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.