FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHANGES	S IN BENEFI	CIAL OW	NERSHIP

OMB APPRO	DVAL
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 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]								5. Relationship of Reporting (Check all applicable) Director X Officer (give title below)		10% (Owner (specify		
(Last) (First) (Middle) C/O IONIS PHARMACEUTICALS, INC. 2855 GAZELLE COURT						3. Date of Earliest Transaction (Month/Day/Year) 07/01/2017									SVP, Finance & CFO				
(Street) CARLSBAD CA 92010				4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)							Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person							
(City)	(Sta	ate) (2	Zip)																
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day)						Execution Date,				es Acquired (A) o Of (D) (Instr. 3, 4 a		and 5) Secur Benet		icially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)			
									Code	v	Amount	(A) oi (D)	Price		Trans	action(s) 3 and 4)		(111341.4)	
Common Stock 07/01/20					07/01/2017		J ⁽¹⁾	V	104(1)	A	\$40	6555 1		.0,392	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 3. Transaction Date (Month/Day/Year) 6. Month/Day/Year) 1. Title of Conversion of Exercise Price of Derivative Security 3. Transaction Date (Month/Day/Year) 6. Month/Day/Year)		on Date,	4. Transaction Code (Instr. 8)		5. Numof Derive Securion Acquired (A) or Disposof (D) (Instrand 5	ative rities ired osed	6. Date Exerc Expiration Da (Month/Day/Y		ite	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4) Amoun or Numbe of Title Shares		Derivative Security (Instr. 5) Securi Owned Follow Report Transs (Instr.		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)			

Explanation of Responses:

1. Reporting 104 shares acquired under the Ionis Pharmaceuticals, Inc. Amended and Restated 2000 Employee Stock Purchase Plan on July 1, 2017. These 104 shares may not be sold until January 2, 2018.

Remarks:

/s/B. Lynne Parshall, attorney-07/03/2017 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.