SEC Form 4	
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FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

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

OMB APPROVAL OMB Number: 3235-0287

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See					NT OF CHANGES IN BENEFICIAL OWNERSHIP										Number: ated average bu per response:	3235-0287 rden 0.5	
Instruc	tion 1(b).			Filed						ies Exchang mpany Act o		934				0.0	
1. Name and Address of Reporting Person* HOUGEN ELIZABETH L (Last) (First) (Middle) 2855 GAZELLE COURT					2. Issuer Name and Ticker or Trading Symbol IONIS PHARMACEUTICALS INC [IONS] 3. Date of Earliest Transaction (Month/Day/Year) 08/31/2022								5. Relationship of Reporting Person (Check all applicable) Director X Officer (give title below) EVP, Finance & C			lssuer Owner r (specify v)	
(Street) CARLSI (City)			2010 Zip)		4. If <i>I</i>	Amendi	ment, Date c							Individual or Joint/Group Filing (Check Applicable ne) X Form filed by One Reporting Person Form filed by More than One Reporting Person			
		Table	I - No	on-Deriva	tive S	Secui	rities Acq	luired	, Dis	posed of	, or Be	nefici	ally Own	ed			
1. Title of Security (Instr. 3) Date (Month/Day						Execution Date,			ction Instr.	4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4 5)					6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Ownership	
					Code V Amount (A) C		(A) or (D)	Price	Transa	ted action(s) 3 and 4)		(Instr. 4)					
Common Stock 08/31/24					.022			J ⁽¹⁾		202	A	\$28.9	968 5	8,561	D		
		Ta	ble II -							osed of, o convertib				d			
1. Title of Derivative Security (Instr. 3) 2. 3. Transaction Date 3A. Deemed Execution (Month/Day/Year) 1. Title of Derivative (Month/Day/Year) 3A. Deemed Execution Date, if any (Month/Day/Year)		4. Transa Code (8)		5. Number of Derivative Securities Acquired	6. Date Expira (Month	tion Da		7. Title a Amount Securitie Underly Derivati	of es ing	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficiall Owned	Ownersh Form:	Beneficial Ownership				

(insu: 3)	Derivative Security	(Montili/Day rear)	, , ,		Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)				Derivative Security (Instr. 3 and 4)		(1150.5)	Owned Following Reported Transaction(s) (Instr. 4)	(Instr. 4)	
			Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				

Explanation of Responses:

1. Reporting shares acquired under the Ionis Pharmaceuticals, Inc. Amended and Restated 2000 Employee Stock Purchase Plan on August 31, 2022. These shares may not be sold until February 28, 2023.

By: Patrick R. O'Neil,

attorney-in-fact For: Elizabeth 09/01/2022

L. Hougen

** 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.