SEC Form 4	
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## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

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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).

FORM 4

## 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

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1. Name and Address of Reporting Person*					2. Issuer Name and Ticker or Trading Symbol IONIS PHARMACEUTICALS INC [ IONS ]							5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
HOUGEN ELIZABETH L						- I	Directo	r		10% Ow	ner						
							<u> </u>		(give title		Other (s	pecify					
(Last) (First) (Middle)					3. Date of Earliest Transaction (Month/Day/Year) 01/03/2023							below)	THE D		below)		
2855 GAZELLE COURT					01/	/03/2	.023						E	EVP, Finai	nce &	CFO	
2000 01		oom															
					4. 11	f Ame	endment,	Date	of Original File	d (Month/Da	ay/Year)		dividual or J	oint/Group	Filing	(Check App	licable
(Street)												Line	,				
CARLS	BAD (	CA	92010										K Form fi	iled by One	Repor	ting Person	
															e than	One Report	ing
(City)	(	State)	(Zip)										Person	1			
(=,)			(-++)														
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																	
1. Title of	Security (In	str. 3)		2. Transa	ction	, T	2A. Deem	ed	3.	4. Secur	ties Acquire	d (A) or	5. Amou	nt of	6. Ow	nership 7	. Nature of
		· · · ,		Date			Execution Date,		e, Transaction Dispose Code (Instr. 5)		d Of (D) (Instr. 3, 4 an		Securitie Beneficia				Indirect Beneficial
			I	(wonth/L	n/Day/Year)   if any (Month/Day/Y			ay/Yea				Owned F	ollowing	(D) or Ind g (I) (Instr.		wnership	
			I							(A) or		Reported Transaction(s)			(	Instr. 4)	
					- 1			Code V	Amount	(D)	Price	(Instr. 3 a	and 4)				
, 			Table U. D			0			ulus al Disc		an Dana	£	<u></u>				
			Table II - D						, options,				Owned				
1. Title of	2.	3. Transaction	3A. Deemed	4.			5. Num	ber	6. Date Exerci	sable and	7. Title an	d Amount	8. Price of	9. Number	r of	10.	11. Nature
Derivative Conversion Date Execution Date		Date, Transa		ansaction of		of Ex		Expiration Date of Securiti			Derivative	derivative		Ownership	of Indirect		
Security (Instr. 3)				Security (Instr. 5)				Beneficial Ownership									
	Derivative Acquired (Instr. 3 and				14) Owned or Indirect (In												
Security					(A) or Disposed		Disposed						Following Reported		(I) (Instr. 4)		
	of (D) (Instr.					Transaction(s)											
					3, 4 and 5)		<u> </u>				(Instr. 4)						
												Amount					
												Number					
					ode	v	(A)	(D)	Date Exercisable	Expiration Date	Title	of Shares					
						•	(~)	(5)	Excitisable	Build							
Non- Qualified																	
Stock	\$37.58	01/03/2023			A		25,946		01/03/2024 <sup>(1)</sup>	01/02/2033	Common	25,946	\$0.0	25,946	<u> </u>	D	
Option (right to									01,00/2021		Stock				·	-	

## Explanation of Responses:

buy)

1. Grant on 01/03/2023 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 01/03/2023. 25% of the shares subject to the option will vest and become exercisable on 01/03/2024. Thereafter, the remaining shares subject to the option will vest and become exercisable in 36 equal monthly installments over the next 3 years.

By: Patrick R. O'Neil, attorney-	
in-fact For: Elizabeth L.	01/04/2023
Hougen	

Date

\*\* Signature of Reporting Person

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.

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