SEC Form 4	
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FORM 4

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

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

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Instruction 1(b)			Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934			nouis per r		
			or Section 30(h) of the Investment Company Act of 1940					
1. Name and Addr		5	2. Issuer Name and Ticker or Trading Symbol IONIS PHARMACEUTICALS INC [IONS		ationship of R < all applicabl	Reporting Person(s) to Issuer ble)		
BERTHELSEN SPENCER R (Last) (First) (Middle)		<u>LER R</u>		X	Director		10% Owner	
		(Middlo)	[Officer (giv below)	ve title	Other (specify below)	
C/O IONIS PH	· · /	(<i>, ,</i>	3. Date of Earliest Transaction (Month/Day/Year) 06/23/2020		,		,	
2855 GAZELL	E COURT							
(Street)			4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv Line)	vidual or Joint/Group Filing (Check Applical			
CARLSBAD	CA	92010			Form filed	by One Rep	porting Person	
		52010			Form filed Person	by More tha	an One Reporting	
(City)	(State)	(Zip)						
		Table I - Non	-Derivative Securities Acquired, Disposed of, or Benefi	cially	Owned			

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transa Code (8)					5. Amount of Securities Beneficially Owned Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	v	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)		(1150. 4)
Common Stock	06/23/2020	06/23/2020	M ⁽¹⁾		15,000	A	\$9.22	111,983	D	
Common Stock	06/23/2020	06/23/2020	S ⁽¹⁾		15,000	D	\$58.76	96,983	D	
Common Stock								70 ⁽²⁾	Ι	By daughter

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)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transa Code (8)		of Deri Seci Acq (A) o Disp of (E	Imber vative 6. Date Exercisable and Expiration Date (Month/Day/Year) rities virities vir		e of Securities ear) Underlying		8. Price of Derivative 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	Expiration Date	Title	Amount or Number of Shares				
Director Stock Option (right to buy)	\$9.22	06/23/2020	06/23/2020	М			15,000	07/01/2014	06/30/2020	Common Stock	15,000	\$0	0	D	

Explanation of Responses:

1. Acquired as a result of exercising a stock option that was scheduled to expire on 6/30/2020. The purchase and sale reported on this Form 4 was effective pursuant to a Rule 10b5-1 Trading Plan adopted by the reporting person on 2/28/2020.

2. The reporting person disclaims beneficial ownership of all securities held by his daughter, and this report should not be deemed an admission that the reporting person is the beneficial owner of such securities for purposes of Section 16 or for any other purpose.

Remarks:

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

06/25/2020

** 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.