П

# FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

	Check this box if no longer subject to
;	Section 16. Form 4 or Form 5
	obligations may continue. See
	Instruction 1(b).

### 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

OMB APPROVAL										
OMB Number:	3235-0287									
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	hours per response:	0.5

1. Name and Addre	1 0		2. Issuer Name and Ticker or Trading Symbol IONIS PHARMACEUTICALS INC [ IONS	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
BERTHELSEN SPENCER R				X	Director	10% Owner			
(Last)	(First)	(Middle)	— ['		Officer (give title below)	Other (specify below)			
C/O IONIS PH	· · ·	( )	3. Date of Earliest Transaction (Month/Day/Year) 06/24/2019		,	··· ,			
2855 GAZELL	E COURT								
			4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indi Line)	vidual or Joint/Group Fili	ng (Check Applicable			
(Street)				X	Form filed by One Re	porting Person			
CARLSBAD	CA	92010			Form filed by More the Person	an One Reporting			
(City)	(State)	(Zip)							

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

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1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership
			Code	v	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)
Common Stock	06/24/2019	06/24/2019	<b>M</b> <sup>(1)</sup>		5,310 <sup>(1)</sup>	A	\$16.32	99,404	D	
Common Stock	06/24/2019	06/24/2019	S <sup>(1)</sup>		5,310 <sup>(1)</sup>	D	<b>\$63.3661</b> <sup>(2)</sup>	94,094	D	
Common Stock	06/24/2019	06/24/2019	<b>M</b> <sup>(1)</sup>		9,690(1)	A	\$16.32	103,784	D	
Common Stock	06/24/2019	06/24/2019	<b>S</b> <sup>(1)</sup>		9,690(1)	D	\$63.843 <sup>(3)</sup>	94,094	D	
Common Stock								70 <sup>(4)</sup>	I	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 Secu Acqu (A) c Disp of (D	umber vative urities uired or oosed o) (Instr. and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		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)	\$16.32	06/24/2019	06/24/2019	М			15,000	07/01/2013	06/30/2019	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 6/30/2019. 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 3/1/2019.

2. The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$62.68 to \$63.68, inclusive. The reporting person undertakes to provide to Ionis Pharmaceuticals, Inc., any security holder of Ionis Pharmaceuticals, Inc. or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the ranges set forth in footnote (2) on this Form 4.

3. The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$63.69 to \$64.16, inclusive. The reporting person undertakes to provide to Ionis Pharmaceuticals, Inc., any security holder of Ionis Pharmaceuticals, Inc. or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the ranges set forth in footnote (3) on this Form 4.

4. 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:** 

<u>/s/Patrick R. O'Neil, attorney-</u>

06/26/2019

Date

\*\* Signature of Reporting Person

in-fact

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

 $^{\ast}$  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.