FORM 4

Check this box if no longer subject to

Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL

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			or Section 30(h) of the Investment Company Act of 1940								
Name and Addre	ess of Reporting Pers	son*	2. Issuer Name and Ticker or Trading Symbol IONIS PHARMACEUTICALS INC [IONS]		5. Relationship of Reporting Person(s) to Issu (Check all applicable) X Director 10% Ow						
	(First)	(Middle) ALS, INC.	3. Date of Earliest Transaction (Month/Day/Year) 07/01/2019		Officer (give title below)	Other (specify below)					
2855 GAZELLI	E COURT		4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv	vidual or Joint/Group Filir	g (Check Applicable					
Street) CARLSBAD	CA	92010		X	,						
(City)	(State)	(Zip)									
		Table I - Non-De	rivative Securities Acquired, Disposed of, or Benefi	cially (Dwned						

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. Transaction Code (Instr. 8)					5. Amount of Securities Beneficially Owned Following Reported	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	Transaction(s) (Instr. 3 and 4)		(1130.4)			
Common Stock	07/01/2019	07/01/2019	M ⁽¹⁾		666(1)	A	\$0	10,460	D				
Common Stock	07/01/2019	07/01/2019	M ⁽¹⁾		667(1)	A	\$0	11,127	D				
Common Stock	07/02/2019	07/02/2019	M ⁽¹⁾		889(1)	A	\$0	12,016	D				
Common Stock	07/03/2019	07/03/2019	M ⁽¹⁾		667(1)	A	\$0	12,683	D				
Common Stock								1,500	I	By Cooley LLP Sal Def & PSP u/A DTD 2/1/74 Pension Plan			

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) 6. Date Exercisable and 7. Title and Amount 8. Price of 3. Transaction 3A. Deemed 5. Number 9. Number of 11. Nature Conversion or Exercise Price of of Securities Underlying Derivative Security Expiration Date (Month/Day/Year) Execution Date, Transaction Derivative derivative Ownership of Indirect Derivative Securities Form: Direct (D) (Month/Day/Year) Securities Beneficially Beneficial Ownership if any (Month/Day/Year) Code (Instr. 8) Security (Instr. 5) Derivative Security Owned Following or Indirect (I) (Instr. 4) Acquired (Instr. 3 and 4) (Instr. 4) (A) or Disposed of (D) (Instr. 3, 4 and 5) Reported Transaction(s) (Instr. 4) Amount Number Date Exercisable Expiration Date of Shares (A) (D) Title Code Restricted Common Stock Units (2) 07/01/2019 07/01/2019 M 666 (3) (3) 666 \$<mark>0</mark> 0 D Restricted Common Stock Units (2) 07/01/2019 07/01/2019 667 (3) (3) 667 \$<mark>0</mark> 666 D Stock Restricted Commor Stock Units (2) 07/02/2019 07/02/2019 889 (3) (3) 889 \$<mark>0</mark> 2,666 D Stock Restricted Common Stock Units (2) 07/03/2019 07/03/2019 667 (3) (3) 667 \$<mark>0</mark> 1,333 D Stock Restricted Commo Stock Units (2) 07/01/2019 07/01/2019 7,110 (4) (4) 7,110 7,110 D Stock Director Stock Common 06/30/2029(5) 16,000 $07/01/2020^{(5)}$ Option \$64.8 07/01/2019 07/01/2019 A 16,000 \$<mark>0</mark> 16,000 D (right to buy)

Explanation of Responses:

- $1.\ Acquired\ pursuant\ to\ vesting\ and\ release\ of\ shares\ pursuant\ to\ Restricted\ Stock\ Unit\ awards.$
- 2. Each Restricted Stock Unit represents a contingent right to receive one share of Ionis common stock, or its equivalent cash value.
- 3. Restricted Stock Units vest in four equal annual installments. Upon vesting, the restricted stock units will be paid out in whole shares of Ionis common stock or cash as may be determined by the Company.

4. Grant of July 1, 2019 to reporting person of Restricted Stock Unit Award under the Amended and Restated Ionis Pharmaceuticals, Inc. 2002 Non-Employee Directors' Stock Option Plan. Restricted Stock Units vest in four equal annual installments, the first installment vesting on July 1, 2020. Upon vesting, the restricted stock units will be paid out in whole shares of Ionis common stock or cash as may be determined by the Company. The RSU shall be fully vested on July 1, 2023. The RSU is vested as to 0 shares on July 1, 2019.

5. Grant of July 1, 2019 to reporting person of stock options under the Amended and Restated Ionis Pharmaceuticals, Inc. 2002 Non-Employee Directors' Stock Option Plan. The option vests and becomes exercisable in four equal annual installments, the first installment vesting on July 1, 2020. The option shall be fully vested and exercisable on July 1, 2023. The option is exercisable to 0 shares on July 1, 2019.

Remarks:

/s/Patrick R. O'Neil, attorney-infact 07/03/2019

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.

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.