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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).
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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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1 I Nume and Address of Reporting Leson			2. Issuer Name and Ticker or Trading Symbol IONIS PHARMACEUTICALS INC [IONS	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
PARSHALL	BLIMME	L	1	X	Director	10% Owner			
(Last)	(First)	(Middle)	1	x	Officer (give title below)	Other (specify below)			
			3. Date of Earliest Transaction (Month/Day/Year)	COO					
C/O IONIS PHARMACEUTICALS, INC.		ICALS, INC.	12/15/2016						
2855 GAZELL	E COURT								
p			4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indi	vidual or Joint/Group Fili	ng (Check Applicable			
(Street)				Line)					
CARLSBAD	СА	92010		X	Form filed by One Re	porting Person			
					Form filed by More th	an One Reporting			
	(-)				Person				
(City)	(State)	(Zip)		1					

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

Table 1 - 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)		Disposed Of (D) (Instr. 3, 4 and 5)			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)		(11501-4)		
Common Stock	12/15/2016	12/15/2016	M ⁽¹⁾		1,000(1)	A	\$7.25	1,000	Ι	By daughter		
Common Stock	12/15/2016	12/15/2016	S ⁽¹⁾		1,000(1)	D	\$50	0	Ι	By daughter		
Common Stock	12/15/2016	12/15/2016	M ⁽¹⁾		1,000(1)	A	\$7.25	1,000	Ι	By daughter		
Common Stock	12/15/2016	12/15/2016	S ⁽¹⁾		1,000(1)	D	\$ <u>5</u> 0	0	Ι	By daughter		
Common Stock	12/15/2016	12/15/2016	M ⁽¹⁾		1,000(1)	A	\$7.25	1,000	Ι	By son-in- law		
Common Stock	12/15/2016	12/15/2016	S ⁽¹⁾		1,000(1)	D	\$ <u>5</u> 0	0	Ι	By son-in- law		
Common Stock	12/15/2016	12/15/2016	M ⁽¹⁾		1,000 ⁽¹⁾	A	\$7.25	1,000	Ι	By grandchild		
Common Stock	12/15/2016	12/15/2016	S ⁽¹⁾		1,000(1)	D	\$ <u>5</u> 0	0	I	By grandchild		
Common Stock								16,693	D			

 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 Sec Acq (A) Disp of (I	oosed D) tr. 3, 4	Expiration Date (Month/Day/Year)		Amount of		unt of Derivative Security (Instr. 5) vative Security		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				
Employee Stock Option (right to buy)	\$7.25	12/15/2016	12/15/2016	М			1,000	01/03/2015	01/02/2019	Common Stock	1,000	\$0	0	I	By daughter
Employee Stock Option (right to buy)	\$7.25	12/15/2016	12/15/2016	М			1,000	01/03/2015	01/02/2019	Common Stock	1,000	\$0	0	I	By daughter
Employee Stock Option (right to buy)	\$7.25	12/15/2016	12/15/2016	М			1,000	01/03/2015	01/02/2019	Common Stock	1,000	\$0	0	I	By son-in- law

	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)	of 2. 3. Transaction 3A. Deemed 4. 5. Number 6 ve Conversion Date Execution Date, Transaction of E y or Exercise (Month/Day/Year) if any Code (Instr. Derivative (I				6. Date Exerc Expiration Da (Month/Day/Y	ate	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				
Employee Stock Option (right to buy)	\$7.25	12/15/2016	12/15/2016	М			1,000	01/03/2015	01/02/2019	Common Stock	1,000	\$0	0	I	By grandchild

Explanation of Responses:

. 1. Acquired as a result of exercising a stock option pursuant to Rule 10b5-1 Trading Plan. The purchase and sale reported on this Form 4 was effective pursuant to Rule 10b5-1 Trading Plan adopted by the reporting person on 7/3/2016.

Remarks:

<u>/s/B. Lynne Parshall</u>

** Signature of Reporting Person

12/16/2016

Date

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.

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