FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

wasnington,	D.C.	20549

2. Issuer Name and Ticker or Trading Symbol

STATEMENT	OF CHANGES	IN BENEFICIAL	OWNERSHIP

- 1									
	OMB Number:	3235-0287							
	Estimated average burden								
ı	hours per response:	0.5							

5. Relationship of Reporting Person(s) to Issuer

OMB APPROVAL

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

1. Name and Address of Reporting Person'

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

Boyce Sarah					IONIS PHARMACEUTICALS INC [IONS]] ,	ck all applica Director	,	10% Ow		
	`	First) MACEUTICALS	(Middle)		3. Date of Earliest Transaction (Month/Day/Year) 01/15/2017						X				below)	below)	
(Street)		A	92010		4. If Amendment, Date of Original Filed (Month/Day/Year)					6. Ind Line)							
(City)	(S	State)	(Zip)														
1. Title of Security (Instr. 3) 2. Tran				2. Transa	Execution Date,		3. 4. Securitie Disposed Code (Instr.		f, or Beneficially les Acquired (A) or Of (D) (Instr. 3, 4 and 5		5. Amount of		Form: Direct I (D) or Indirect I		7. Nature of Indirect Beneficial Ownership		
								Code	v	Amount	(A) or (D)	Price	Reported Transacti (Instr. 3 a	ion(s)		[Instr. 4)
Common	Stock		İ	01/15/	2017	01/1	5/2017	M ⁽¹⁾		2,188(1)	A	\$0	5,3	318		D	
Common	Stock			01/17/	2017	01/1	7/2017	S ⁽²⁾		855 ⁽²⁾	D	\$46.29	4,4	4,463		D	
Common	Stock			01/15/	2017	01/1	5/2017	M ⁽³⁾		1,295(3)	A	\$0	5,758 D		D		
Common	Stock			01/17/	2017	01/1	7/2017	S ⁽⁴⁾		506(4)	D	\$46.29	5,2	252		D	
			Table II - I							osed of, o			Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Da if any (Month/Day/Y	Coc	nsaction le (Instr.	Deriva Secur Acqui Dispo	ities red (A) or sed of str. 3, 4	Expiration Date		5. Date Exercisable and Expiration Date Month/Day/Year) 7. Title and Amount of Securities Underlying Derivative Sec (Instr. 3 and 4)		f g Security	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported	e s ally	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)
				Cod	le V	(A)	(D)	Date Exercis	able	Expiration Date	Title	Amount or Number of Shares		Transaction(s) (Instr. 4)			
Restricted Stock Units	(5)	01/15/2017	01/15/2017	7 A		7,537		(6)		(6)	Common Stock	7,537	\$0 7,533		,537 D		
Restricted Stock	(5)	01/15/2017	01/15/2017	7 M			2,188 ⁽²⁾	(7)		(7)	Common Stock	2,188	\$0	4,374	4	D	

Explanation of Responses:

(5)

01/15/2017

1. Acquired pursuant to vesting and release of shares pursuant to a Restricted Stock Unit award granted on January 15, 2015.

01/15/2017

2. The sale was made pursuant to an automatic sale to cover the required tax withholding obligations pursuant to the 2011 Equity Incentive Plan Restricted Stock Unit Agreement and Grant Notice, dated January

(7)

1,295(4)

- 3. Acquired pursuant to vesting and release of shares pursuant to a Restricted Stock Unit award granted on January 15, 2016.
- 4. The sale was made pursuant to an automatic sale to cover the required tax withholding obligations pursuant to the 2011 Equity Incentive Plan Restricted Stock Unit Agreement and Grant Notice, dated January 15, 2016.
- 5. Each Restricted Stock Unit represents a contingent right to receive one share of Ionis common stock, or its equivalent cash value.
- 6. Grant 1/15/2017 to reporting person of Restricted Stock Units under the Ionis Pharmaceuticals, Inc. 2011 Equity Incentive Plan. Restricted Stock Units vest in four equal annual installments, the first installment vesting on January 15, 2018. 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 January 15, 2021. The RSU is vested as to 0 shares on January 15, 2017.
- 7. 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.

Remarks:

Restricted

Stock Units

/s/B. Lynne Parshall, Attorney

01/18/2017

3,883

D

in Fact

Commor

1,295

\$<mark>0</mark>

(7)

** 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.