FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL

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

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

l	nd Address of KE STAN		IONIS PHARMACEUTICALS INC [ IONS ]									5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  X Director 10% Owner  V Officer (give title Other (specify							
	,	irst) MACEUTICALS DURT	(Middle)			Date o		iest Trans	saction (I	Month	n/Day/Year)		X Onicer (give title Other (specify below)  Chairman and CEO					,	
(Street)	BAD C	—   4. I	4. If Amendment, Date of Original Filed (Month/Day/Year)     6. Individual or Joint/Group Filing (Check Applicable Line)     X Form filed by One Reporting Person     Form filed by More than One Reporting																
(City)	(S	tate)	(Zip)												Person			·	Ü
		Tal	ole I - N	on-Deri	ivativ	e Se	curit	ties Ac	quirec	l, Di	sposed o	f, or Be	nefic	ially	Owned				
1. Title of	Security (Ins	tr. 3)		2. Trans Date (Month/I		Ex r) if a	2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transa Code ( 8)		4. Securities Acquir Disposed Of (D) (In				5. Amount of Securities Beneficially Owned Following Reported		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership
									Code	v	Amount	(A) or (D)	Price		Transaci (Instr. 3	tion(s)			(Instr. 4)
Common	Stock			04/12	(	04/12/2017		<b>M</b> <sup>(1)</sup>		10,000(1)	) A	\$7.25		48	18,014		D		
Common		04/12/2017			04/12/2017		S <sup>(1)</sup>		10,000(1)	) D	\$40.07(2)		38,014			D			
Common	Stock			04/12/2017			04/12/2017		<b>M</b> <sup>(3)</sup>		1,000(3)	A	\$10.29		4,062			I	By wife
Common	Stock			04/12/2017		_	04/12/2017		S <sup>(3)</sup>		1,000(3)	D	\$40.07(4)		3,062		I I		By wife
Common					3/2017	+	04/13/2017		M <sup>(1)</sup>		10,000(1)	+	\$7.25		48,014		D		
Common					04/13/2017		04/13/2017		S <sup>(1)</sup>		10,000(1)	_	\$41.3		38,014			D	
Common		3/2017			3/2017	M <sup>(3)</sup>		500(3)	A	\$10.29		3,562				By wife			
Common	3/2017			04/13/2017			500 <sup>(3)</sup>	D	\$41.3 \$7.25		_	3,062 3,562			By wife				
Common	3/2017 3/2017			04/13/2017			500(3)	A D	\$41.3		3,062				By wife By wife				
Common				04/13	72017	+	J4/ 13	0/201/	S <sup>(3)</sup>		3000		1 44	1.0	+ -	5,391			By trust
Common	- Otock		Table II	- Deriv	ative	Seci	uritie	es Aca	uired.	Disi	posed of,	or Ben	eficia	llv C		,,,,,,,,		1	Dy trust
											convertil								
1. Title of Derivative Security (Instr. 3)	rivative Conversion Date Execution Date, Curity or Exercise (Month/Day/Year) if any		Code (	ransaction of ode (Instr. Derivati			6. Date Exerci Expiration Dat (Month/Day/Ye		te of Securities (ear) Underlying Derivative Sec (Instr. 3 and 4)		ies g Securi	[	3. Price of Derivative Security Instr. 5)	9. Numbe derivative Securities Beneficia Owned Following Reported Transacti (Instr. 4)	e s Illy	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)		
					Code	v	(A)	(D)	Date Exercis	able	Expiration Date	Title	Amou or Numb of Share	er					
Employee Stock Option (right to buy)	\$7.25	04/12/2017	04/12	/2017	M			10,000	01/03/2016		01/02/2019	Common Stock	10,0	00	\$0	43,462		D	
Employee Stock Option (right to buy)	\$10.29	04/12/2017	04/12	/2017	M			1,000	01/03/2	015	01/02/2018	Common Stock	1,00	00	\$0	500		I	By wife
Employee Stock Option (right to buy)	\$7.25	04/13/2017	04/13	/2017	M		10,000		01/03/2016		01/02/2019	Common Stock			\$0	33,46	62 D		
Employee Stock Option (right to buy)	\$10.29	04/13/2017	04/13/2017 04/13/2017		M	500		01/03/2	1/03/2015 01/02/2018		Common Stock	500		\$0	0		I	By wife	

	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)		Transaction of Code (Instr. Derivative			6. Date Exerc Expiration Da (Month/Day/\)	ate	7. Title and of Securiti Underlying Derivative (Instr. 3 and	ies g Security	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	04/13/2017	04/13/2017	M			500	01/03/2016	01/02/2019	Common Stock	500	\$0	10,904	I	By wife

## **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 9/21/2015.
- 2. The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$40.02 to \$40.08, 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. 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's wife on 9/21/2015.
- 4. The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$40.02 to \$40.08, inclusive. The reporting person's wife 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 (4) on this Form 4.

## Remarks:

/s/B. Lynne Parshall, attorney-04/13/2017 in-fact

\*\* 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.

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