FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL

OMB Number: 3235-0287

Estimated average burden

hours per response:

0.5

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

1. Name and Address of Reporting Person*						2. Issuer Name and Ticker or Trading Symbol IONIS PHARMACEUTICALS INC [IONS]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
HOUGEN ELIZABETH L						[1010]								Director Officer	give title		10% Ow Other (s	· I	
(Last) (First) (Middle)						3. Date of Earliest Transaction (Month/Day/Year)								X Officer (give little Officer (specify below) SVP, Finance & CFO					
C/O IONIS PHARMACEUTICALS, INC.							01/15/2016								VP, FINA	псе 8	CFU		
2855 GAZELLE COURT							A If Amendment Date of Original Filed (Month/Dou/Voor)								6. Individual or Toint/Croun Filips (Chask Applicable				
(Street)							4. If Amendment, Date of Original Filed (Month/Day/Year)								Individual or Joint/Group Filing (Check Applicable Line)				
CARLSBAD CA 92010															Form filed by One Reporting Person Form filed by More than One Reporting				
													Person				.iiig		
(City)	(S	State)	(Zip)																
		Та	ble I - No	on-De	rivati	ve S	Securit	ies Ac	quired	d, Dis	sposed of	, or Ben	eficiall	Owned					
1. Title of Security (Instr. 3) 2. Transa Date (Month/D							2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Disposed Of			5. Amou Securitie Beneficia Owned F	s ally ollowing	Form	: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership	
								Code	ode V Amount		(A) or (D)	Price	Transact	Reported Transaction(s) (Instr. 3 and 4)			(Instr. 4)		
Common Stock				01/15/2016		6	01/15/2016		M ⁽¹⁾		541 ⁽¹⁾	A	\$0	4,0	.009		D		
Common Stock				01/19/2016		6	01/19/2016		S ⁽²⁾		216 ⁽²⁾	D	\$41.465	3,	793		D		
Common Stock				01/15/2016		.6	01/15/2016		M ⁽³⁾		312 ⁽³⁾	A	\$0	4,	,105		D		
Common Stock				01/19/2016		.6	01/19/2016		S ⁽⁴⁾		125 ⁽⁴⁾	D	\$41.458	3,9	980		D		
Common Stock				01/1	01/15/2016		01/15/2016		M ⁽³⁾		654 ⁽³⁾	A	\$ <mark>0</mark>	4,0	4,634		D		
Common Stock				01/1	01/19/2016		01/19/2016		S ⁽⁴⁾		261 ⁽⁴⁾	D	\$41.4634		373		D		
Common Stock				01/1	01/15/2016		01/15/2016		M ⁽⁵⁾		1,875(5)	A	\$0	6,2	,248		D		
Common Stock 01/19/					19/201	.6	01/19	/2016	S ⁽⁶⁾		747 ⁽⁶⁾	D	\$41.466	5,	5,501		D		
Common Stock 01/15/2					15/201	.6	01/15	01/15/2016			1,380 ⁽⁷⁾	A \$0		6,8	381		D		
Common Stock 01/19/2					19/201	2016 01/19/201			S ⁽⁸⁾		550 ⁽⁸⁾	D	\$41.465	6,3	5,331		D		
			Table II								osed of, o			Owned					
1. Title of Derivative Security (Instr. 3)	ve Conversion Date Execution or Exercise (Month/Day/Year) if any		Date,	4. Transa Code (8)				Expiration I (Month/Day			7. Title ar Amount of Securities Underlyin Derivative (Instr. 3 a	of S g Security	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficia Owned Following Reported Transacti	e s ally	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership ect (Instr. 4)		
					Code	v	(A)	(A) (D)		cisable	Expiration Date	Title	Amount or Number of Shares		(Instr. 4)				
Restricted Stock Units	(9)	01/15/2016	01/15/2	016	A		6,373		(10)		(10)	Common Stock	6,373	\$0	6,373	3	D		
Restricted Stock Units	(9)	01/15/2016	01/15/2016		М	541		541 ⁽²⁾	(11)		(11)	Common Stock	541	\$0	0		D		
Restricted Stock Units	(9)	01/15/2016	01/15/2016		М	312(312 ⁽⁴⁾	(12)		(12)	Common Stock	312	\$0	312		D		
Restricted Stock Units	(9)	01/15/2016	01/15/2	01/15/2016		654 ⁽⁴⁾		(12)		(12)	Common Stock	654	\$0	653		D			

Explanation of Responses:

(9)

(9)

01/15/2016

01/15/2016

Restricted

Restricted

Stock Units

1. Acquired pursuant to vesting and release of shares pursuant to an RSU award granted on January 15, 2012.

01/15/2016

01/15/2016

M

M

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 15, 2012.

(13)

(14)

Commor

Stock

1,875

1,380

\$0

\$0

3,750

4,138

D

D

(13)

(14)

1,875⁽⁶⁾

1,380⁽⁸⁾

- $3.\ Acquired\ pursuant\ to\ vesting\ and\ release\ of\ shares\ pursuant\ to\ an\ RSU\ award\ granted\ on\ January\ 15,\ 2013.$
- 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, 2013.

5. Acquired pursuant to vesting and release of shares pursuant to an RSU award granted on January 15, 2014.

- 6. 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, 2014.
- 7. Acquired pursuant to vesting and release of shares pursuant to an RSU award granted on January 15, 2015.
- 8. 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, 2015.
- 9. Each Restricted Stock Unit represents a contingent right to receive one share of Ionis common stock, or its equivalent cash value.
- 10. Grant 1/15/2016 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, 2017. 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, 2020. The RSU is vested as to 0 shares on January 15, 2016.
- 11. Restricted Stock Unit Award granted on January 15, 2012. Restricted Stock Units vest in equal annual installments, the first installment vested on January 15, 2013. 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 was fully vested on January 15, 2016.
- 12. Restricted Stock Unit Award granted on January 15, 2013. Restricted Stock Units vest in equal annual installments, the first installment vested on January 15, 2014. 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, 2017.
- 13. Restricted Stock Unit Award granted on January 15, 2014. Restricted Stock Units vest in equal annual installments, the first installment vested on January 15, 2015. 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, 2018.
- 14. Restricted Stock Unit Award granted on January 15, 2015. Restricted Stock Units vest in equal annual installments, the first installment vested on January 15, 2016. 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, 2019.

Remarks:

/s/B. Lynne Parshall, attorneyin-fact 01/19/2016

** 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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