FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Vashington,	D.C.	20549	
vasilington,	D.C.	20040	

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
OMB Number:	3235-0287								
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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

1. Name and Address of Reporting Person* <u>Castleman Breaux</u>					2. Issuer Name and Ticker or Trading Symbol IONIS PHARMACEUTICALS INC [IONS]								(Ched	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
													X	Director			10% Ow	ner	
(Last)	,	First)	(Middle)		3. Date of Earliest Transaction (Month/Day/Year) 07/01/2017							1	Officer (g below)	give title		Other (s below)	pecify		
			, 1110.																
2855 GA	ZELLE CO	OURT		F									_						
				4	I. If Am	endment	t, Date o	of Or	riginal Fil	led (Month/Day/Ye	ear)		ividual or Joi	nt/Group F	iling (Check Appli	cable	
(Street)													Line)						
CARLSI	BAD C	Α	92010											Form file	a by One	Report	ing Person		
														Form file	d by More	than (One Reporti	ng Person	
(City)	(S	State)	(Zip)																
		т	able I - Non-E)orivat	ivo S	ocurit	ioc A	2011	irod [)ier	acced of	or Bono	ficially	Owned					
		<u>'</u>	able I - NOII-L	Jenvai	ive 3	ecum	IES A	-qu	iii eu, L	וכוכ	Joseu oi,	or belle	ilcially	Owneu					
1. Title of Security (Instr. 3) 2. Tran															7. Nature of Indirect				
				Date (Month/Day/Year)		Execution Date,) if any		e, Transaction Disposed Of (D) (Insti		(D) (Instr. 3	3, 4 and 5)					Beneficial			
			Ι,	•		(Month/Day/Year)						Owned Fo				Ownership			
									Cada	v	A	(A) or	Price		Reported Transaction(s)		- [(Instr. 4)	
									Code	V	Amount	^t (D) P		(Instr. 3 and 4)					
Common Stock 07			07/01/2	1/2017 07/01/2017		7	M ⁽¹⁾		3,406(1)	A	\$0	9,6	27		D				
Collinion Stock 0			0770172	1/2017 07/01/2017			IVI		3,400** 11		Ψ°	3,027							
			Table II - De	rivativ	/e Se	curitie	s Acc	uir	ed, Di	spc	sed of, or	r Benefi	cially O	wned					
			(e.	g., put	ts, ca	lls, wa	rrant	s, o	ptions	s, c	onvertible	securit	ties)						
1. Title of	I.	0 Turner 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		T.	-	· 						7. Title an		8. Price of	9. Numbe		10.	11. Nature	
Derivative Security (Instr. 3)				Transa Code (5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3,			6. Date Exercisable and Expiration Date (Month/Day/Year) 7. Title and A of Securities Underlying Derivative Se (Instr. 3 and 4)			ies g Security	Derivative Security (Instr. 5) derivati Securit Benefic Owned	derivative Securitie Beneficia Owned Following	ve Owner es Form: ally Direct or Indi	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	of Indirect Beneficial Ownership ect (Instr. 4)			
						4 and 5)									on(s)			
				1									Amount		(Instr. 4)	011(3)			
				1									or Number						
				1				Dat			Expiration		of						
				Code	٧	(A)	(D)	Exe	ercisable	. [Date	Title	Shares						
Restricted Stock Units	(2)	07/01/2017	07/01/2017	M			3,406		(3)		(3)	Common Stock	3,406	\$0	3,999	9	D		
Restricted Stock Units	(2)	07/03/2017	07/03/2017	A		2,667			(4)		(4)	Common Stock	2,667	\$0	2,66	7	D		
Director Stock Option (right to	\$52.22	07/03/2017	07/03/2017	A		16,000		07/0	03/2018 ⁽	5) (07/02/2027 ⁽⁵⁾	Common Stock	16,000	\$0	16,00	0	D		

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 3, 2017 to reporting person of Restricted Stock Unit Award under the Ionis Pharmaceuticals, Inc. Amended and Restated 2002 Non-Employee Directors' Stock Option Plan. Restricted Stock Units vest in four equal annual installments, the first installment vesting on July 3, 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 July 3, 2021. The RSU is vested as to 0 shares on July 3, 2017.
- 5. Grant of July 3, 2017 to reporting person of stock options under the Ionis Pharmaceuticals, Inc. Amended & Restated 2002 Non-Employee Directors' Stock Option Plan. The option vests and becomes exercisable in four equal annual installments, the first installment vesting on July 3, 2018. The option shall be fully vested and exercisable on July 3, 2021. The stock option was exercisable as to 0 shares on July 3, 2017.

Remarks:

/s/B. Lynne Parshall, Attorney-07/03/2017 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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