FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C. 20549
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TATEMENT O	F CHANGES IN	BENEFICIAL	OWNERSHIP

2. Issuer Name and Ticker or Trading Symbol

ı	UNIB APPRO	VAL
	OMB Number:	3235-0287
	Estimated average burder	ı
ı	hours por rosponso:	0.5

5. Relationship of Reporting Person(s) to Issuer

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

Name and Address of Reporting Person* Castleman Breaux				uer Name and Ticker <mark>IIS PHARMA(</mark>] (Checl	ationship of Reporting k all applicable)	, ,			
									X	Director	10% (
(Last) (First) (Middle) C/O IONIS PHARMACEUTICALS, INC. 2855 GAZELLE COURT				te of Earliest Transact 1/2016	ion (Mo	inth/D	ay/Year)		Officer (give title below)	Other (specify below)			
(Street) CARLSBAD CA 92010				mendment, Date of C	riginal F	Filed (Month/Day/Ye	6. Indi Line) X	l '				
(City)	(State)	(Zip)											
		Table I - No	n-Derivative	Securities Acqu	uired,	Dis	posed of, o	or Bene	ficially (Owned			
Date		2. Transaction Date (Month/Day/Yea	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Disposed Of			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	ount (A) or (D)		Transaction(s) (Instr. 3 and 4)		(111501.4)		
Common Stock			07/01/2016	07/01/2016	M ⁽¹⁾		469(1)	A	\$0	3,950	D		
Common Stock			07/01/2016	07/01/2016	M ⁽²⁾		667(2)	A	\$0	4,617	D		
Common Stock		07/01/2016	07/01/2016	M ⁽³⁾		937(3)	A	\$0	5,554	D			

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned

 $M^{(4)}$

07/01/2016

667(4)

\$0

6,221

D

	(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)		Derivati Securiti Acquire or Disp	curities (Month/Day/Year) quired (A) Disposed (D) (Instr. 3,		te of Securities		8. Price of Derivative Security (Instr. 5)	Reported	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		Transaction(s) (Instr. 4)		
Restricted Stock Units	(5)	07/01/2016	07/01/2016	M			2,740	(6)	(6)	Common Stock	2,740	\$0	4,738	D	
Restricted Stock Units	(5)	07/01/2016	07/01/2016	A		2,667		(7)	(7)	Common Stock	2,667	\$0	2,667	D	
Director Stock Option (right to buy)	\$24.42	07/01/2016	07/01/2016	A		16,000		07/01/2017 ⁽⁸⁾	06/30/2026 ⁽⁸⁾	Common Stock	16,000	\$0	16,000	D	

Explanation of Responses:

Common Stock

- 1. Acquired pursuant to vesting and release of shares pursuant to a Restricted Stock Unit award granted on July 1, 2013.
- $2. \ Acquired \ pursuant \ to \ a \ Restricted \ Stock \ Unit \ award \ granted \ on \ July \ 1, 2015.$
- 3. Acquired pursuant to vesting and release of shares pursuant to a Restricted Stock Unit award granted on June 25, 2013.
- 4. Acquired pursuant to vesting and release of shares pursuant to a Restricted Stock Unit award granted on July 1, 2014.
- 5. Each Restricted Stock Unit represents a contingent right to receive one share of Ionis common stock, or its equivalent cash value.

07/01/2016

- 6. Restricted Stock Units vest in 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.
- 7. Grant of July 1, 2016 to reporting person of Restricted Stock Unit Award under the Amended and Restated Ionis Pharmaceuticals, Inc. 2002 Non-Employee Directors' Stock Option Plan. Restricted Stock Units vest in four equal annual installments, the first installment vesting on July 1, 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 July 1, 2020. The RSU is vested as to 0 shares on July 1, 2016.
- 8. Grant of July 1, 2016 to reporting person of stock options under the Amended and Restated Ionis Pharmaceuticals, Inc. 2002 Non-Employee Directors' Stock Option Plan. The option vests and becomes exercisable in four equal annual installments, the first installment vesting on July 1, 2017. The option shall be fully vested and exercisable on July 1, 2020. The option is exercisable as to 0 shares on July 1, 2016.

Remarks:

/s/B. Lynne Parshall, attorney-

07/06/2016

** 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.

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.