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		

$\overline{}$	Check this box if no longer subject to Section 16. Form 4
	Check this box in no longer subject to Section 16. Form 4

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

						UI Section	on 30(n) of the	invesiment v	Cumpai	ly Act 01 1340							
Name and Address of Reporting Person* Boyce Sarah					2. Issuer Name and Ticker or Trading Symbol IONIS PHARMACEUTICALS INC [IONS]								Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner				
												l x	Officer (give title	below)		ecify below)	
(Last) (First) (Middle) C/O IONIS PHARMACEUTICALS, INC. 2855 GAZELLE COURT				3. Date of Earliest Transaction (Month/Day/Year) 01/01/2016								C	hief Busine	ess Officer			
(Street) CARLSBAD C (City) (Street)	A State)	92 (zi	010 p)		4. If Amendment, Date of Original Filed (Month/Day/Year)						6. Individu X	Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
			-	Tahle I .	Non-Der	ivative Se	curities A	cauired F	isno	sed of or Rei	neficially Ow	ned					
									es Acquired, Disposed of, or Beneficially Owned 3. Transaction 4. Securities Acquired (A) or Disposed Of (D) (Instr. 5. Amount of Securities 6. Ownership Form: 7. Nature of								
2 This of Security (months)				Date	Exec	Execution Date,			3, 4 and 5)			Beneficially Owned Fo		rect (D) or Indirect (I)	Indirect Beneficial		
				(Month/Day	y/Year) if any (Mon		Code V	1	Amount	(A) or (D)		Reported Transactior (Instr. 3 and 4)	(s) (ins	str. 4)	Ownership (Instr. 4)		
Common Stock			01/01/2	2016 01	/01/2016	J ⁽¹⁾	v	419	A	\$47.7105	419		D				
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																	
Title of Derivative Security (Instr. 3)	Derivative Security (Instr. 2. Conversion or Exercise Price of Derivative Security		Execution Date, (In		tion Code	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities U Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following	Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	v	(A)	(D)	Date Exercisable	Exp Dat	piration e Title		Amount or Number of Share	es	Reported Transaction((Instr. 4)	(s)		
Employee Stock Option (right to buy)	\$61.68	01/04/2016	01/04/2016	A		31,070		01/04/2017	(2) 01/	03/2023 Co	mmon Stock	31,070	\$0	31,070	D		

- Explanation of Responses:

 1. Reporting 419 shares acquired under the Ionis Pharmaceuticals, Inc. Amended and Restated 2000 Employee Stock Purchase Plan on January 1, 2016. These 419 shares may not be sold until July 2, 2016.

 2. Grant of 1/4/2016 to reporting person of stock options under the Ionis Pharmaceuticals, Inc. 2011 Equity Incentive Plan. 25% of the shares subject to the option vest and become exercisable on 1/4/2017. Thereafter, the remaining shares subject to the option vest and become exercisable in 36 equal monthly installments, at the rate of 7,768 shares per year. Following this transaction, the option was exercisable as to 0 on 1/4/2016.

Remarks:

/s/B. Lynne Parshall, attorney-in-fact
** Signature of Reporting Person

01/04/2016

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.

Know all by these presents, that the undersigned hereby constitutes and appoints each of Stanley T. Crooke and B. Lynne Parshall, signing individually, the undersign (1) execute for and on behalf of the undersigned, an officer, director or holder of 10% or more of a registered class of securities of Isis Pharmaceuticals, Inc. (Is (2) do and perform any and all acts for and on behalf of the undersigned that may be necessary or desirable to complete and execute such Form 3, 4 or 5, complete and (3) take any other action of any nature whatsoever in connection with the foregoing which, in the opinion of such attorney-in-fact, may be of benefit, in the best in The undersigned hereby grants to each such attorney-in-fact full power and authority to do and perform any and every act and thing whatsoever requisite, necessary, (1) This Power of Attorney shall remain in full force and effect until the earliest to occur of (a) the undersigned is no longer required to file Forms 3, 4 and 5 with 1

IN WITNESS WHEREOF, the undersigned has caused this Power of Attorney to be executed as of this 5th day of January, 2015.

/S/Sarah Boyce