FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

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

			U	1 Section 30(11) of ti	ie irivesurie	ні Сопір	ally Act of 1940					
1. Name and Address of Re O'NEIL PATRICK				and Ticker or Tradi		<u>[C</u> [IS	ıs]			ionship of Reporting Person(s) t all applicable) Director	o Issuer	er
(Last) C/O ISIS PHARMACE 2855 GAZELLE COUI		(Middle)	3. Date of Earlie 01/01/2015	Date of Earliest Transaction (Month/Day/Year) SVP, Legal & General Counsel								ecify below)
(Street) CARLSBAD	CA	92010	4. If Amendment, Date of Original Filed (Month/Day/Year)				6. Indivi	vidual or Joint/Group Filing (Check Applicable Line) Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City)	(State)	(Zip)										
		Table I -	Non-Derivativ	e Securities /	Acquired	, Disp	osed of, or Bene	ficially Ov	vned			
1. Title of Security (Instr. 3)		2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date,	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (3, 4 and 5)		ed Of (D) (Instr.	5. Amount of Securities Beneficially Owned Following Reported Transaction(s)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr.	
			(o.i.a.,Day/real)	(Month/Day/Year)	Code	v	Amount	(A) or (D)	Price	(Instr. 3 and 4)	(1130.4)	4)
Common Stock	01/01/2015	01/01/2015	J ⁽¹⁾	v	329	A	\$30.0475	4,082	D			

	01/02/2015	01/02/2015	S ⁽²⁾		283(2)	D	\$					
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned												

M⁽²⁾

S(2)

M(2)

1,217(2)

1 217(2)

283(2)

Α

D

Α

\$10.82

\$62 115

\$7.25

\$62.115

5,299

4 082

4.365

4.082

(-19-1, -1, -1, -1, -1, -1,																
Title of Derivative Security (Instr. 3)		Conversion Date		3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)		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 Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following	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		Reported Transaction(s) (Instr. 4)		
	Employee Stock Option (right to buy)	\$61.57	01/02/2015	01/02/2015	A		31,457		01/02/2016 ⁽³⁾	01/01/2022	Common Stock	31,457	\$0	31,457	D	
	Employee Stock Option (right to buy)	\$10.82	01/02/2015	01/02/2015	M			1,217	01/02/2014 ⁽⁴⁾	01/01/2020	Common Stock	1,217	\$0	13,353	D	
	Employee Stock Option (right to buy)	\$7.25	01/02/2015	01/02/2015	M			283	01/03/2013 ⁽⁵⁾	01/02/2019	Common Stock	283	\$0	9,750	D	

Common Stock

Common Stock

Common Stock

Common Stock

- 1. Reporting 329 shares acquired under the Isis Pharmaceuticals, Inc. Amended and Restated 2000 Employee Stock Purchase Plan on January 1, 2015. These 329 shares may not be sold until July 2, 2015.

01/02/2015

01/02/2015

01/02/2015

01/02/2015

01/02/2015

01/02/2015

- 1. Reporting 325 shares acquired under time six Friammaceuticals, inc. Amenione and residued 2000 Employee Stock Purchase Plan for January 1, 2013. These 325 shares may not or esotion time 1 miles 250 shares per year.

 2. Acquired as a result of exercising a stock option pursuant to a Rule 1055-1 Trading Plan adopted by the reporting person on 1/2/2014.

 3. Grant of 1/2/2015 to reporting person of stock options under the Isis Pharmacueticals, Inc. 2011 Equity Incentive Plan, 25% of the shares subject to the option vest and become exercisable on 1/2/2016. Thereafter, the remaining shares subject to the option vest and become exercisable in 36 equal monthly installments, at the rate of 7,865 shares per year. The option was exercisable as to 0 on 1/2/2015.

 4. Grant of 1/2/2013 to reporting person of stock options under the Isis Pharmacueticals, Inc. 1989 Stock Option Plan. 25% of the shares subject to the option vest and become exercisable on 1/2/2014. Thereafter, the remaining shares subject to the option vest and become exercisable in 36 equal monthly installments, at the rate of 3,925 shares per year. Following this transaction, the option was exercisable as to 5,503 on 1/2/2015.
- 5. Grant of 1/3/2012 to reporting person of stock options under the Isis Pharmacueticals, Inc. 1989 Stock Option Plan. 25% of the shares subject to the option vested and became exercisable on 1/3/2013. Thereafter, the remaining shares subject to the option vest and become exercisable in 36 equal monthly installments, at the rate of 4,875 shares per year. Following this transaction, the option was exercisable as to 4,468 on 1/2/2015.

Remarks:

/s/Patrick R. O'Neil 01/05/2015 ** 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 inform tion contained in this form are not required to respond unless the form displays a currently valid OMB Num 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 1st day of January, 2013.

/S/Patrick R. O'Neil