FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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Washington,	D.C.	20549	

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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* O'NEIL PATRICK R.								cker or Tra		Symbol LS INC		eck all appli Directo	cable) or	g Person(s) to Issu 10% Ow		ner		
	`	CEUTICALS, I	(Middle)			3. Date of Earliest Transaction (Month/Day/Year) 11/03/2015								helow)			Other (s below) ral Counse	`
(Street)			92010		4. 1	4. If Amendment, Date of Original Filed (Month/Day/Year)							Line	e) <mark>X</mark> Form f	or Joint/Group Filing (Check Applicable m filed by One Reporting Person m filed by More than One Reporting son			
(City)	(S	tate)	(Zip)															
		Tab	le I - No	on-Deri	vativ	e Se	curit	ties A	cquired	l, Di	sposed o	f, or Be	neficial	ly Owned	<u> </u>			
1. Title of Security (Instr. 3)			Date	2. Transaction Date (Month/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		Code (Transaction Disposed C				Benefic Owned	es ially Following	Form (D) o	: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership	
									Code	v	Amount	(A) or (D)	Price	Reporte Transac (Instr. 3	ction(s)			(Instr. 4)
Common Stock 11/03				11/03	3/2015	2015 11/03/2015		3/2015	M ⁽¹⁾		1,000(1)	A	\$7.25	7,	7,259		D	
Common	Stock			11/03	3/2015	2015 13		11/03/2015			1,000(1)	D	\$51.95	6,259			D	
		-	Table II								oosed of, convertil			Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deem Execution if any (Month/D	n Date,	Date, Transac Code (I				6. Date E Expiratio (Month/D	n Dat	е	7. Title and Amount of Securities Underlying Derivative Securit (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	s Illy	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisa	ble	Expiration Date	Title	Amount or Number of Shares					
Employee Stock Option (right to buy)	\$7.25	11/03/2015	11/03/	2015	M			1,000	01/03/20:	13 ⁽³⁾	01/02/2019	Common Stock	1,000	\$0	3,067	,	D	

Explanation of Responses:

- 1. Acquired as a result of exercising a stock option pursuant to Rule 10b5-1 Trading Plan. The purchase and sale reported on this Form 4 was effective pursuant to Rule 10b5-1 Trading Plan adopted by the reporting person on 9/21/2015.
- 2. The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$51.50 to \$52.40, inclusive. The reporting person undertakes to provide to Isis Pharmaceuticals, Inc., any security holder of Isis Pharmaceuticals, Inc. or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the ranges set forth in footnote (2) on this Form 4.
- 3. 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 2,254 on 11/3/2015.

Remarks:

/s/Patrick O'Neil

11/04/2015

** 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.

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