FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Check this box if no longer subject to
Section 16. Form 4 or Form 5
obligations may continue. See
Instruction 1(b)

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL

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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* PARSHALL B LYNNE						2. Issuer Name and Ticker or Trading Symbol ISIS PHARMACEUTICALS INC [ISIS]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner V Officer (give title Other (specify					
(Last) C/O ISIS 2855 GA			3. Date of Earliest Transaction (Month/Day/Year) 04/19/2013								X Officer (give title Other (specify below) COO, Secretary								
(Street)	BAD C.	A	92010		4. If	Amer	ndmer	nt, Date	of Origir	nal File	ed (Month/Da	y/Year)		Form	filed by One	e Repo	(Check Apporting Person One Repor	1	
(City)	(S	tate)	(Zip)											Perso	n				
		Tak	ole I - N	on-Deri	vative	Sec	urit	ies Ac	quire	d, Di	sposed o	f, or Be	neficia	lly Owned	t				
1. Title of Security (Instr. 3)				2. Transaction Date (Month/Day/		Exec if an	2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired Disposed Of (D) (Instr			Securiti Benefic Owned	5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	: Direct Indirect str. 4)	7. Nature of Indirect Beneficial Ownership	
									Code	v	Amount	(A) or (D)	Price	Transac (Instr. 3	tion(s)			Instr. 4)	
Common Stock		04/19/2013		04/19/2013		M ⁽¹⁾		30,000(1)	A	\$7.2	6 32	2,941	D						
Common	04/19/	2013	3 04/19/2013		S ⁽¹⁾		30,000(1)	D	\$20.0	06 2	,941	D							
Common	04/22/2013		04/22/2013		M ⁽²⁾		30,000(2)	A	\$11.1	.2 32	2,941		D						
Common	Stock			04/22/	2013	04	1/22/	2013	S ⁽²⁾		30,000(2)	D	\$20.9	9 2,	,941	D			
Common Stock		04/23/2013		04/23/2013		M ⁽²⁾		10,000(2)	A	\$11.1	.2 12	2,941		D					
Common Stock			04/23/2013		04/23/2013		S ⁽³⁾		10,000(3)	D	\$22.09	067 2,	,941		D				
Common Stock				04/23/2013		04/23/2013		M ⁽²⁾		10,000(2)	A	\$6.8	1 10	10,000			oy daughter		
Common Stock				04/23/2013		04/23/2013		S ⁽³⁾		10,000(3)	D	\$22.09	067	0			oy daughter		
Common Stock				04/23/2013		04/23/2013		M ⁽²⁾		10,000(2)	A	\$6.8	1 10	10,000			oy laughter		
Common	Stock			04/23/2013		04/23/2013		S ⁽³⁾		10,000(3)	D	\$22.09	067	0			oy daughter		
			Table II								posed of, convertib			y Owned					
1. Title of Derivative Security (Instr. 3) 2. Conversion Date (Month/Day/Year) Derivative Security 3. Transaction Date (Month/Day/Year)		if any	cution Date, T		ansaction ode (Instr.				Exercition Day/\		7. Title and Amour of Securities Underlying Derivative Securit (Instr. 3 and 4)		Derivative Security	9. Numbe derivative Securities Beneficia Owned Following Reported Transacti (Instr. 4)	e s Illy	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
					Code		(A)	(D)	Date Exercis	sable	Expiration Date	Title	Amount or Number of Shares						
Employee Stock Option (right to buy)	\$7.26	04/19/2013	04/19	9/2013	M			30,000	09/21/	2010	09/20/2013	Common Stock	30,000	\$0	0		D		
Employee Stock Option (right to buy)	\$11.12	04/22/2013	04/22	2/2013	М	А 30,000		01/02/2011		01/01/2014	Common Stock	30,000	\$0	47,454		D			
Employee Stock Option (right to buy)	hiployee book tion \$11.12 04/23/2013 04/23 ght to		3/2013 M				10,000	01/02/2011		01/01/2014	Common Stock	10,000	\$0	37,454		D			

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (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)	Execution Date, Transa					6. Date Exerc Expiration Da (Month/Day/\)	ate	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 Reported Transaction(s) (Instr. 4)	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				
Employee Stock Option (right to buy)	\$6.81	04/23/2013	04/23/2013	М			10,000	01/02/2007	01/01/2014	Common Stock	10,000	\$0	0	I	by daughter
Employee Stock Option (right to buy)	\$6.81	04/23/2013	04/23/2013	М			10,000	01/02/2007	01/01/2014	Common Stock	10,000	\$0	0	I	by daughter

Explanation of Responses:

- 1. Acquired as a result of exercising a stock option that was scheduled to expire on 9/20/2013. The purchase and sale reported on this Form 4 was effective pursuant to a Rule 10b5-1 Trading Plan adopted by the reporting person on 1/16/2012.
- 2. Acquired as a result of exercising a stock option that was scheduled to expire on 1/1/2014. The purchase and sale reported on this Form 4 was effective pursuant to a Rule 10b5-1 Trading Plan adopted by the reporting person on 1/31/2013.
- 3. The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$22.005 to \$22.16, 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 (3) on this Form 4.

Remarks:

<u>/s/B. Lynne Parshall</u> <u>04/23/2013</u>

** 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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