FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHANGE	S IN BENEFIC	CIAL OWNER	SHIP

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 or Section 30(h) of the Investment Company Act of 1940

Name and Address of Reporting Person* PARSHALL B LYNNE						2. Issuer Name and Ticker or Trading Symbol ISIS PHARMACEUTICALS INC [ISIS]									Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner X Officer (give title below)					
(Last) (First) (Middle) C/O ISIS PHARMACEUTICALS, INC. 1896 RUTHERFORD ROAD						3. Date of Earliest Transaction (Month/Day/Year) 12/22/2009									officer below)	er (give title Other (specify below) Director, COO				
(Street)	eet) ARLSBAD CA 92008					4. If Amendment, Date of Original Filed (Month/Day/Year)									fividual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City)	(S		(Zip)																	
1. Title of Security (Instr. 3)		2. Transaction Date (Month/Day/Ye		2	2A. Deemed Execution Date,		3. Transaction		4. Securities Acquired (A) o Disposed Of (D) (Instr. 3, 4 a			Ī	5. Amount of Securities	6. Ownership Form: Direct		7. Nature				
				/ear) if any (Month/Day/Year)			·		(A) or (D) Price		\dashv	Beneficially Owned Following Reported Transaction(s)		(D) or Indirect (I) (Instr. 4)		Beneficial Ownership (Instr. 4)				
Common	Stock			12/22	/2009		12/2	2/2009	M ⁽¹⁾	V	10,000				(Instr. 3 a	985		D		
Common				12/22				2/2009	S ⁽²⁾		10,000	_	\$6.8125 \$10.13			985	D			
Common	Stock			12/23/2009			12/23/2009		M ⁽¹⁾		1,910(1) A	\$6.8	125	3,8	895 D		D		
Common	Stock			12/23	12/23/2009		12/23/2009		S ⁽²⁾		1,910(2) D	\$10.	.59	1,9	985 D		D		
Common	Stock			12/23	/2009		12/2	3/2009	M ⁽¹⁾		7,500 ⁽¹) A	\$6.8	125	7,5	500	I By daug		By daughter	
Common Stock			12/23	12/23/2009		12/23/2009		S ⁽²⁾		7,500 ⁽²) D	\$10.	.59		0			By daughter		
Common Stock			12/23	2/23/2009		12/23/2009		M ⁽¹⁾		7,500 ⁽¹) A	\$6.8	125	7,5	500			By daughter		
Common	Common Stock		12/23/2009			12/23/2009		S ⁽²⁾		7,500 ⁽²) D	\$10.	.59	0				By daughter		
		-	Table II								osed of, convertil				wned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	ise (Month/Day/Year) if any (Month/		ned 4.		ction	5. Number		6. Date Exercis Expiration Dat (Month/Day/Ye		sable and	7. Title and Am of Securities Underlying Derivative Sec (Instr. 3 and 4)		nt 8. De Se	Price of erivative ecurity estr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	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		Expiration Date	Title	Amoun or Numbe of Shares	r						
Employee Stock Option (right to buy)	\$6.8125	12/22/2009	12/22/	2009	M			10,000	01/06/20	000	01/05/2010	Common Stock	10,00	0	\$0	1,910		D		
Employee Stock Option (right to buy)	\$6.8125	12/23/2009	12/23/	2009	M			1,910	01/06/20	000	01/05/2010	Common Stock	1,910)	\$0	0		D		
Employee Stock Option (right to buy)	\$6.8125	12/23/2009	12/23/	2009	M			7,500	01/06/20	000	01/05/2010	Common Stock	7,500)	\$0	7,545		I	By daughter	
Employee Stock Option (right to buy)	\$6.8125	12/23/2009	12/23/	2009	M			7,500	01/06/20)00	01/06/2010	Common Stock	7,500)	\$0	7,545	,	I	By daughter	

Explanation of Responses

^{1.} Acquired as a result of exercising a stock option that was scheduled to expire on 1/5/10. The purchase reported on this Form 4 was effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on 10/1/08

 $2. \ The sale \ reported in this Form 4 was effected pursuant to a Rule 10b5-1 \ trading plan \ adopted by the reporting person on 10/1/08.$

Remarks:

/s/B. Lynne Parshall

12/23/2009

** 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.