FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Washington, D.C. 20549

OMB APPROVAL

OMB Number: 3235-0287

Estimated average burden hours per response: 0.5

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

1. Name and Address of Reporting Person*							2. Issuer Name and Ticker or Trading Symbol										5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
PARSHALL B LYNNE							ISIS PHARMACEUTICALS INC [ISIS]										,		10% Ov	_{vner}		
,												X	O#:	(give title		Other (s						
(Last) (First) (Middle)							Date of Earliest Transaction (Month/Day/Year)										(give title		below)	pecily		
C/O ISIS PHARMACEUTICALS, INC.							09/11/2007										Executive Vice President					
1896 RU	THERFOR	_																				
							4. If Amendment, Date of Original Filed (Month/Day/Year)										6. Individual or Joint/Group Filing (Check Applicable Line)					
(Street)																X Form filed by One Reporting Person						
CARLSBAD CA 92008																Form filed by More than One Reporting						
																Person						
(City) (State) (Zip)																						
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																						
1 Title of (Coourity (Inc			2. Trans															7. Nature			
Date						E	xecution Date,		Tra	Transaction [4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4			and Securition		es For		: Direct	of Indirect		
					Day/Yea		if any (Month/Day/Year)			Code (Instr. 8)		5)					Following (i) (I		nstr. 4)	Beneficial Ownership		
												_	(A) c	r L		Reporte	oorted nsaction(s)		- 19	(Instr. 4)		
								Co	de V		Amount	(A) c (D)	· Pr	ice	(Instr. 3							
Common Stock 09/11/2						2007 09/11/20			М	(1)		6,466	1) A	\$	55.15		2,159		D			
Common Stock 09/11/2					/2007 0		09/1	09/11/2007		(2)		6,466	(2) D \$1		13.03	5,693			D			
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned																						
(e.g., puts, calls, warrants, options, convertible securities)																						
1. Title of	2.	3. Transaction	3A. Deeme	ed	4.		5. Number		6. Dat	6. Date Exercisal		ble and	e and 7. Title and			8. Price of	9. Number of		10.	11. Nature		
Derivative Security	Conversion or Exercise	Date (Month/Day/Year)	Execution		Transa Code (of	ivative	Expira	Expiration Date (Month/Day/Yea			Underlying			Derivative Security (Instr. 5)	derivative Securities Beneficially		Ownership Form: Direct (D)	of Indirect Beneficial		
(Instr. 3)	Price of	(Month/Day/Year)	if any (Month/Da		Coue (8)	ınsır.	Securities		(WON	nıbayı	rear)	,			- 1			у		Ownership		
	Derivative Security						Acquired (A) or					Derivative Secu (Instr. 3 and 4)			rity		Owned Following		or Indirect (I) (Instr. 4)	(Instr. 4)		
							Disp	osed					(Reported Transaction(s)		" "			
							of (D) (Instr. 3, 4 and 5)										(Instr. 4)	1(3)				
															_							
														Amo	ount							
														Num	nber							
					Code	v	(A)	(D)	Date Exerc	isable	Ex Da	piration ite	Title	of Shar	res							
Employee											\top											
Stock	05.15	00/11/2005	00/44/2	1007	,, l				04/01	1/2026	1	/24 /2000	Common	6,4	₆₆	0 0			Б			
Option (right to	\$5.15	09/11/2007	09/11/2	2007	M			6,466	01/01	1/2006	12/	/31/2008	Stock	0,4	ן סטי	\$0	0		D			
buy)	1							1						1						1		

Explanation of Responses:

- $1.\ The purchase reported on this Form\ 4 was effected pursuant to a\ Rule\ 10b5-1\ trading\ plan\ adopted\ by\ the\ reporting\ person\ on\ 10/2/06.$
- 2. The sale reported on this Form 4 was effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on 10/2/06.

Remarks:

<u>/s/B. Lynne Parshall</u>

09/12/2007

Date

** Signature of Reporting Person

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.