FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington D.C. 20549

Washington, D.C. 20549	OMB APPROVAL		
STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP	OMB Number:	3235-0	

	OMB Number:	3235-0287							
	Estimated average burden								
ı	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* MUTO FREDERICK T			2. Issuer Name and Ticker or Trading Symbol ISIS PHARMACEUTICALS INC [ISIS]							5. Relationship of Reporting Person(s) to Issuer (Check all applicable)						
WICTO	TREDE	HOIV I										X Directo	r	10% C	wner	
(Last) C/O ISIS	`	irst) .CEUTICALS, I	(Middle)		3. Date of Earliest Transaction (Month/Day/Year) 07/01/2010							Officer below)	(give title	Other below)	specify	
1896 RUTHERFORD ROAD				4.	4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Individual or Joint/Group Filing (Check Applicable				
(Street)	BAD C.	A	92008						Line	Form filed by One Reporting Person Form filed by More than One Reporting Person						
(City)	(S	tate)	(Zip)													
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																
1. Title of Security (Instr. 3) 2. Transa Date (Month/D				action 2A. Deemed Execution Date, if any (Month/Day/Year)		Code (Inst	Transaction Disposed Of (D) (Instr. 3, 4				es Formally (D) (Following (I) (I	. Ownership orm: Direct D) or Indirect) (Instr. 4)	7. Nature of Indirect Beneficial Ownership			
			Code V			Amount	(A) or (D)	Price	Reported Transact (Instr. 3 a	ion(s)		(Instr. 4)				
			Table II - Deriv (e.g.,					uired, Disp s, options,				Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)		nsaction of Expirat		6. Date Exerci Expiration Dat (Month/Day/Ye	Date of Securities		ies g Security	8. Price of Derivative Security (Instr. 5)		Ownershi Form: Direct (D) or Indirec (I) (Instr. 4	Beneficial Ownership (Instr. 4)		
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares					
Director Stock Option (right to buy)	\$9.22	07/01/2010	07/01/2010	A		15,000		07/01/2011 ⁽¹⁾	06/30/2020	Common Stock	15,000	\$0	15,000	D		

Explanation of Responses:

1. Grant of 7-1-10 to reporting person of stock option under the Isis Pharmaceuticals, Inc. 2002 Non-Employee Directors' Stock Option Plan. The option vests and becomes exercisable in four equal annual installments, with the first installment vesting on 7-1-11. The option shall be fully vested and exercisable on 7-1-14. The option is exercisable as to 0 shares on 7-1-10.

Remarks:

/s/B. Lynne Parshall, Attorneyin-Fact 07/01/2010

** 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.