FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

t to	STATEMENT	C

OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

Check this box if no longer subjection 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* <u>BENNETT C FRANK</u>						2. Issuer Name and Ticker or Trading Symbol ISIS PHARMACEUTICALS INC [ISIS]								Officer (give title				o Issuer % Owner er (specify	
(Last) (First) (Middle) C/O ISIS PHARMACEUTICALS, INC. 1896 RUTHERFORD ROAD						3. Date of Earliest Transaction (Month/Day/Year) 12/22/2010								X below		ce Pro	below)	sреспу	
(Street) CARLSE	BAD C.	A	92008 (Zip)		4. If	If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
		Tab	le I - No	n-Deriv	/ative	e Se	curit	ies Ac	quired	, Dis	sposed o	of, or B	eneficia	ally Owne	ed				
1. Title of Security (Instr. 3) 2. Transac Date (Month/Da					r) E	2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr.		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4			d 5) Securi Benefi Owned	cially I Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	n: Direct or Indirect	7. Nature of Indirect Beneficial Ownership		
									Code	v	Amount	(A) o	r Price		ed ction(s) 3 and 4)			(Instr. 4)	
Common Stock 12/22					/2010	2010		12/22/2010			6,200(1	1) A	\$9.6	25 (5,761	761			
Common	ommon Stock 12/2				/2010	T	12/22/2010		S ⁽²⁾		6,200(2	2) D	\$10	52	561		D		
Common	Common Stock 12/23				/2010	2010 12/23/20			M ⁽¹⁾		1,500(1	(1) A \$		25 2	2,061		D		
Common Stock 12/23/2				/2010	2010 12/23/2010		S ⁽²⁾		1,500	2) D	\$10.	525	561		D				
		Т	able II -								osed of converti			ly Owned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deen Executio if any (Month/D	n Date,	4. Transacti Code (Ins 8)		of Deri Sec Acq (A) o Disp	oosed D) tr. 3, 4	Expiratio	6. Date Exercis Expiration Date (Month/Day/Yea		7. Title and Amount of Securities Underlying Derivative Secur (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)		Ov Fo Dii or (I)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisal		Expiration Date	Title	Amoun or Numbe of Shares						
Employee Stock Option (right to buy)	\$9.625	12/22/2010	12/22/	/2010	М			6,200	01/02/20	05	01/01/2011	Common Stock	6,200	\$0	13,800	0	D		
Employee Stock Option	\$9.625	12/23/2010	12/23/	/2010	M			1,500	01/02/20	05	01/01/2011	Common Stock	1,500	\$0	12,30	0	D		

Explanation of Responses:

- 1. Acquired as a result of exercising a stock option that was scheduled to expire on 1/1/11. The purchase reported on this Form 4 was effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on 4/16/10.
- 2. The sale reported in this Form 4 was effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on 4/16/10.

By: /s/B. Lynne Parshall, 12/23/2010 Attorney-in-Fact

** 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.