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(h)

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

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*  BENNETT C FRANK						2. Issuer Name and Ticker or Trading Symbol  ISIS PHARMACEUTICALS INC [ ISIS ]								heck all app	licable)	r		n(s) to Issuer  10% Owner Other (specify	
(Last) (First) (Middle) C/O ISIS PHARMACEUTICALS, INC. 1896 RUTHERFORD ROAD						3. Date of Earliest Transaction (Month/Day/Year) 09/14/2007								X Officer (give title Other (specify below)  Vice President					
(Street) CARLSBAD CA 92008  (City) (State) (Zip)					. 4. 11	4. If Amendment, Date of Original Filed (Month/Day/Year)								ndividual or Joint/Group Filing (Check Applicable e) 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	posed o	f, or Be	neficia	lly Owne	d				
Dat				Date	2. Transaction Date (Month/Day/Year)			emed ion Date, /Day/Year	Code (	Transaction Code (Instr.		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4			unt of ies cially Following	Form (D) o	n: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership	
									Code	v	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)		"	Instr. 4)		
Common Stock 09/14/						2007 09/14/2		4/2007	M <sup>(1)</sup>		10,000	(1) A	\$5.1	.5 1	10,197		D		
Common Stock 09/14/					/2007	/2007		09/14/2007			10,000	(2) <b>D</b>	\$13.	76	6 197		D		
		-									osed of, converti			y Owned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deeme Execution if any (Month/Da	Date, 1	4. Transa Code (I 3)		of E		Expiratio	6. Date Exercisa Expiration Date (Month/Day/Yea		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price o Derivative Security (Instr. 5)		e s Illy	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisal		Expiration Date	Title	Amount or Number of Shares	1					
Employee Stock Option (right to	\$5.15	09/14/2007	09/14/2	007	М			10,000	01/01/20	06	12/31/2008	Common Stock	10,000	\$0	0		D		

## **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 9/27/05.
- 2. The sale reported on this Form 4 was effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on 9/27/05.

## Remarks:

/s/C. Frank Bennett

09/17/2007

\*\* 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.