FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

	OMB APPROVAL								
	OMB Number:	3235-0287							
l	Estimated average burden								
l	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

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1. Name and Address of Reporting Person* CROOKE STANLEY T						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					
	(Last) (First) (Middle) C/O ISIS PHARMACEUTICALS, INC. 2855 GAZELLE COURT						e of Earl /2012	liest Trans	saction (N	Month	n/Day/Year)		X Officer (give title Other (specify below) below) Chairman, CEO and President						
(Street)	Street) CARLSBAD CA 92010					If An	nendme	ent, Date	of Origina	al File	d (Month/Da		Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person						
(City)	(S	itate)									1 010011								
		Tal	ole I - No	n-Deri	ivativ	⁄e S	ecuri	ties Ac	quired	, Di	sposed c	f, or Be	neficia	lly Owned	l				
1. Title of Security (Instr. 3) 2. Transact Date (Month/Day)					Execution Date,		Code (Transaction Dispos		es Acquired Of (D) (Instr				6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)			
									Code	v	Amount	(A) or (D)	Price	Transac (Instr. 3	tion(s)			(111341. 4)	
Common	Stock			09/1	9/201	2012 09/19/2012		M ⁽¹⁾		30,000 ⁽¹⁾ A		\$5.2	25 30	,000		D			
Common	Stock			09/1	9/201	2012 09/19/2012		9/2012	S ⁽¹⁾		30,000	,000 ⁽¹⁾ D		315	0		D		
Common	Stock			09/2	0/201	2012 09/20/201		0/2012	M ⁽¹⁾		9,462(1) A	\$ 5.25 9		,462		D		
Common Stock 09/20/2						2012 09/20		0/2012	S ⁽¹⁾		9,462(1) D	\$15.0	008	0		D		
Common Stock 09/20/2						2012 09/2		0/2012	M ⁽¹⁾		20,5380	1) A	\$6.8	34 20	20,538		D		
Common Stock 09/20/2							2012 09/20/20		S ⁽¹⁾		20,538 ⁽¹⁾ A		\$15.0	008	0		D		
Common Stock 09/21/20						2012 09/		1/2012	M ⁽¹⁾		29,4620	1) A	\$6.8	34 29	9,462		D		
Common Stock 09/21/20						:012 09/21/		1/2012	S ⁽¹⁾		29,4620	1) D	\$14.	06	0		D		
Common Stock														875	5,391		I	By Trust	
			Table II								oosed of,			y Owned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Execution if any	a. Deemed ecution Date,		actio (Inst	5. Number of		6. Date Exerci Expiration Da (Month/Day/Ye		isable and te	7. Title an of Securit Underlyin Derivative (Instr. 3 ar	d Amoun ies g Security	Derivative Security	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	e s 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	able	Expiration Date	Title	Amount or Number of Shares	1					
Employee Stock Option (right to buy)	\$5.25	09/19/2012	09/19/	2012	M	30,000 01/03/2010 01/02/2013 Common Stock 30,000		\$0	9,462		D								
Employee Stock Option (right to buy)	\$5.25	09/20/2012	09/20/	2012	М	1 9,462		01/03/20	010	01/02/2013	Common Stock	9,462	\$0	0		D			
Employee Stock Option (right to buy)	\$6.84	09/20/2012	09/20/	9/20/2012		М		20,538	01/02/20	007	01/01/2013	Common Stock	20,538	\$0	\$0 29,46		D		
Employee Stock Option (right to buy)	\$6.84	09/21/2012	09/21/	2012	M			29,462	01/02/20	007	01/01/2013	Common Stock	29,462	\$0	0		D		

Explanation of Responses:

Remarks:

^{1.} Acquired as a result of exercising a stock option pursuant to a Rule 10b5-1 Trading Plan. The purchase and sale reported on this Form 4 was effective pursuant to a Rule 10b5-1 Trading Plan adopted by the reporting person on 6/27/2012.

/s/B. Lynne Parshall, Attorney- 09/21/2012 in-Fact

** 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.