FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL										
OMB Number:	3235-0287									
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0.5

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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*  ECKER DAVID J						2. Issuer Name and Ticker or Trading Symbol  ISIS PHARMACEUTICALS INC [ ISIS ]										Checl	all applic Directo	cable)	g Person(s) to Issuer 10% Owner Other (specif		vner	
	`	CEUTICALS, I	(Middle)		09/	3. Date of Earliest Transaction (Month/Day/Year) 09/18/2007										X	below)	Vice P		below) dent		
(Street) CARLSI (City)			92008 (Zip)		_   4.   1	4. If Amendment, Date of Original Filed (Month/Day/Year)										. Indi <sup>i</sup> ine) X						
		Tab	le I - No	n-Deriv	/ative	e Se	curiti	ies Ac	qu	ired, [	Dis	posed c	of, or	Ben	efici	ally	Owned	<u> </u>				
1. Title of Security (Instr. 3)			2. Transa Date	2. Transaction		2A. Deemed Execution Date, if any (Month/Day/Year			3. Transact Code (In 8)	ion	4. Securities Acquired (A) Disposed Of (D) (Instr. 3,			I (A) or	or 5. And Secu Bene Own		mount of urities eficially ned Following		n: Direct r Indirect istr. 4)	7. Nature of Indirect Beneficial Ownership		
							Code V		Amount	(4	(A) or (D) Prid		Reporte Transac (Instr. 3		tion(s)			(Instr. 4)				
Common Stock 09/18					3/2007	2007 09/18/20				M <sup>(1)</sup>		6,000	(1)	A \$6.8		81	6,000			D		
Common Stock 09/18/2					3/2007	2007 09/18/2007				S <sup>(2)</sup>		6,000	(2)	D	\$14	.13		0		D		
Common Stock																37,948			I	By Trust		
		7	able II -									osed of onverti					wned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemd Execution if any (Month/Da	Date,	4. Transa Code ( 8)				6. Date Exercisa Expiration Date (Month/Day/Yea				7. Title and Amount of Securities Underlying Derivative Secu (Instr. 3 and 4)			D Si (li	. Price of erivative ecurity nstr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactic (Instr. 4)	is Silly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Dat Exe	te ercisable		xpiration ate	Title		Amount or Number of Shares	r						
Employee Stock Option	\$6.81	09/18/2007	09/18/2	2007	M			6,000	01/	/06/2004	0	1/05/2010	Comn		6,000		\$0	0		D		

## **Explanation of Responses:**

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

(right to

<u>/s/David J. Ecker</u> <u>09/20/2007</u>

\*\* 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.