

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

OMB APPROVAL	
OMB Number:	3235-0287
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1. Name and Address of Reporting Person* <u>LEVIN ARTHUR A</u> (Last) (First) (Middle) <u>C/O ISIS PHARMACEUTICALS, INC.</u> <u>1896 RUTHERFORD ROAD</u> (Street) <u>CARLSBAD CA 92008</u> (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>ISIS PHARMACEUTICALS INC [ISIS]</u>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) <u>Vice President</u>
	3. Date of Earliest Transaction (Month/Day/Year) <u>10/19/2006</u>	
4. If Amendment, Date of Original Filed (Month/Day/Year)		

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	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			
Common Stock	10/19/2006	10/19/2006	M		2,596	A	\$5.15	4,270	D	
Common Stock	10/19/2006	10/19/2006	M		9,828	A	\$5.8	14,098	D	
Common Stock	10/19/2006	10/19/2006	s ⁽¹⁾		3,000 ⁽¹⁾	D	\$8.95	11,098	D	
Common Stock	10/19/2006	10/19/2006	s ⁽¹⁾		3,000 ⁽¹⁾	D	\$8.97	8,098	D	
Common Stock	10/19/2006	10/19/2006	s ⁽¹⁾		3,000 ⁽¹⁾	D	\$8.98	5,098	D	
Common Stock	10/19/2006	10/19/2006	s ⁽¹⁾		2,500 ⁽¹⁾	D	\$9	2,598	D	
Common Stock	10/19/2006	10/19/2006	s ⁽¹⁾		924 ⁽¹⁾	D	\$9.001	1,674	D	

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

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)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	V	(A)	(D)	Date Exercisable	Expiration Date						Title
Employee Stock Option (right to buy)	\$5.15	10/19/2006	10/19/2006	M			2,596	01/01/2006	12/31/2008	Common Stock	2,596	\$0	0	D	
Employee Stock Option (right to buy)	\$5.8	10/19/2006	10/19/2006	M			9,828	01/03/2006 ⁽²⁾	01/02/2012	Common Stock	9,828	\$0	12,634	D	

Explanation of Responses:

- The transactions reported on this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on 10-2-06.
- Stock option under the Isis Pharmaceuticals, Inc. 1989 Stock Option Plan. 25% of the shares subject to the option vest and became exercisable on 1-3-06. Thereafter, the remaining shares subject to the option vest and become exercisable in 36 equal monthly installments, at the rate of 5,615 shares per year for the remaining three years. The option is exercisable as to 9,828 shares on 10-19-06.

Remarks:

/s/Arthur A. Levin

10/23/2006

** 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.