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* LEWIS JONATHAN						2. Issuer Name and Ticker or Trading Symbol ZIOPHARM ONCOLOGY INC [ZIOP]										Che X	ck all applic	cable) r	ting Person(s) to Issuer 10% Owner Other (spec		wner	
(Last) 1180 AV FLOOR	(F ENUE OF		3. Date of Earliest Transaction (Month/Day/Year) 09/23/2010										X	below)	(give title	CEO	below)	specify				
(Street) NEW Y	_ 4. _	4. If Amendment, Date of Original Filed (Month/Day/Year)											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		(Zip)																			
1. Title of	Security (Ins		ole I - No	2. Trans Date (Month/I	action	ar)	2A. De Execu if any (Montl	emed tion D	d Date,	3. Transac Code (Ir	tion	4. Securi Disposed 5)	ties Ac	quired	(A) or		5. Amount Securities Beneficial Owned Fo	t of ly	Form:	Direct Indirect Etr. 4)	. Nature of ndirect Beneficial Ownership	
										Code	v	Amount	(A) or (D) Price		Price		Reported Transactio (Instr. 3 ar			(nstr. 4)	
Common	Stock, \$.00)1 par value															450		I		By Children ⁽⁵⁾	
Common	Stock, \$.00)1 par value		09/23				F ⁽⁶⁾		128,85	50	D	\$3.95		516,175		75 D					
			Table II							uired, D s, optior							Owned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deem Executior if any (Month/Da	n Date,	4. Transa Code (8)		n of r. De Se Ac (A) Di: of (In	Numb erivative curitie cquired) or spose (D) estr. 3, d 5)	ve es ed	6. Date Exe Expiration I (Month/Day	Date		of Sec Under Deriva	curities lying	ecurity		8. Price of Derivative Security (Instr. 5)	Owned Followir Reporte Transac	re es ally ng d tion(s)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)	
					Code	v	(A)) (0		Date Exercisable		xpiration ate	Title	0	Amount or Jumber of Share	.		nstr. 5) Beneficially				
Stock Option (right to buy)	\$0.08									01/08/2007	0:	1/08/2014	Comn Stoc		25,67	4		25,6	74	D		
Stock Option (right to buy)	\$0.08									01/27/2007	0:	1/27/2014	Comn		242,97	79		242,9	979	D		
Stock Option (right to buy)	\$4.31									01/27/2007	06	5/08/2015	Comn		87,78	9		87,7	789 D			
Stock Option (right to buy)	\$4.31									01/27/2007	09	9/13/2015	Comn		54,16	1		54,1	61	D		
Stock Option (right to buy)	\$5.01									04/26/2006	04	4/26/2016	Comn		139,31	15		139,3	315	D		
Stock Option (right to buy)	\$5.01									04/26/2006	04	4/26/2016	Comn		75,00	0		75,0	00	D		
Stock Option (right to buy)	\$6.49									(1)	12	2/13/2016	Comn		30,00	0		30,0	00	D		
Stock Option (right to buy)	\$4.85									(2)	06	5/18/2017	Comn		35,00	0		35,0	00	D		
Stock Option (right to	\$2.73									(3)	12	2/12/2017	Comn	non k	100,00	00		100,0	000	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) S. Num of Derivat Securit Acquire (A) or Disposio of (D) (Instr. 3 and 5)		rative rities nired r osed)	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and of Securit Underlyin Derivative (Instr. 3 ar	ies g Security	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 Expiration Exercisable Date		Title	Amount or Number of Shares				
Stock Option (right to buy)	\$0.7							(4)	05/13/2019	Common Stock	100,000		100,000	D	
Stock Option (right to buy)	\$2.85							(7)	12/31/2019	Common Stock	150,000		150,000	D	

Explanation of Responses:

- 1. 10,000 shares vest on each of 12/13/07, 12/13/08 and 12/13/09.
- $2.\,\,11,\!667\,\,\text{shares vest on each of }6/18/08\,\,\text{and }6/18/09;\,\,11,\!666\,\,\text{shares vest on }6/18/10.$
- 3. 33,334 shares vest on 12/12/08; 33,333 shares vest on each of 12/12/09 and 12/12/10.
- $4.\ 25{,}000\ shares\ vest\ immediately,\ 25{,}000\ shares\ vest\ on\ each\ of\ 8/13/2009,\ 11/13/2009\ and\ 2/13/2010.$
- 5. By the Reporting Person as custodian for his minor children under the Connecticut Uniform Gifts to Minors Act.
- 6. Disposition represents shares forfeited to satisfy withholding tax obligations upon the vesting of a restricted stock grant.
- $7.\ 50,000\ \text{shares}$ vest on each of 12/31/2010, 12/31/2011 and 12/31/2012.

/s/ Jonathan Lewis 09/24/2010

** Signature of Reporting Person D

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.

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