FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPRO	VAL

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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* BRENNAN MURRAY						2. Issuer Name and Ticker or Trading Symbol ZIOPHARM ONCOLOGY INC [ZIOP]										eck all appl X Direct	icable) or	g Pers	son(s) to Issu	ner	
(Last) (First) (Middle) MEMORIAL SLOAN KETTERING CANCER CENTER						3. Date of Earliest Transaction (Month/Day/Year) 12/13/2006											r (give title)		Other (s below)	pecity	
1275 YORK AVENUE						4. If Amendment, Date of Original Filed (Month/Day/Year)										6. Individual or Joint/Group Filing (Check Applicable Line)					
(Street) NEW YORK NY 10021															X Form filed by One Reporting Person Form filed by More than One Reporting Person						
(City)	(S	tate)	(Zip)																		
		Tab	le I - Nor	-Deriv	/ativ	e Se	curities	s Ac	qui	red, [Disp	osed o	f, or	Ben	eficiall	y Owne	d				
1. Title of Security (Instr. 3) 2. Trans Date (Month/				Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Yea		•,	3. Transac Code (Ir 8)			rities Acquired (A) ed Of (D) (Instr. 3,			Benefic	es ially Following	Form (D) o	n: Direct r Indirect Istr. 4)	7. Nature of Indirect Beneficial Ownership		
									[Code	v	Amount		(A) or (D)	Price	Transac (Instr. 3	tion(s)		[(Instr. 4)	
Common Stock, \$.001 par value																0		D			
		-	Table II - I				urities . s, warr									Owned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution D if any (Month/Day	Date,	1. Fransaction Code (Instr. 3)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisa Expiration Date (Month/Day/Yea		Date		7. Title and Amo of Securities Underlying Derivative Secu (Instr. 3 and 4)		ecurity	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	e s lly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership t (Instr. 4)	
					Code	v	(A)	(D)	Date Exe	e ercisable		opiration	Title	1	Amount or Number of Shares						
Director Stock Option	\$4.31									(1)	12	2/22/2014	Com Sto \$.003 val	ck, l par	15,029		15,02	9	D		
Stock Option (right to buy)	\$5.01								04/	/26/2006	6 04	1/26/2016	Com		15,000		15,00	0	D		
Stock Option (right to	\$6.49	12/13/2006			A		15,000			(2)	12	2/13/2016	Com Sto		15,000	\$0	15,00	0	D		

Explanation of Responses:

- $1.\,7,\!515$ shares vest on 12/22/05 and $7,\!514$ shares vest on 12/22/06.
- 2. 5,000 shares vest on each of 12/13/07, 12/13/08 and 12/13/09.

/s/ Murray Brennan

01/19/2007

** 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.