FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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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).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

					OI -	Secuo	11 30(11) OI THE	mvesum	ent C	ompany Act	01 1940						
1. Name and Address of Reporting Person* BRENNAN MURRAY						2. Issuer Name and Ticker or Trading Symbol ZIOPHARM ONCOLOGY INC [ZIOP]									5. Relationship of Reporting F (Check all applicable) X Director			wner
(Last) (First) (Middle) MEMORIAL SLOAN KETTERING CANCER CENTER						Date o		est Tra	nsaction ((Mont	th/Day/Year)		Office below	r (give title)		Other (: below)	specify	
1275 YORK AVENUE						f Ame	ndmen	t, Date	of Origin	al Fil	ed (Month/D		6. Individual or Joint/Group Filing (Check Applicable Line)					
(Street) NEW YORK NY 10021				- -					Form	Form filed by One Reporting Person Form filed by More than One Reporting Person								
(City)	(Si	•	(Zip)	D i								-f D-			.1			
Table I - Non-Deriva 1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/				ction	2A. Exe if ar	Deeme cution	d Date,	3. 4. Securiti Disposed Code (Instr.		es Acquired (A) or Of (D) (Instr. 3, 4 and		5. Amo	unt of ies ially Following	Forn (D) c	n: Direct or Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
									Code	v	Amount	(A) or (D)	Price	(Instr. 3	action(s) 3 and 4)			
Common	Stock, \$.00)1 par value		05/09/		<u> </u>			S ⁽¹⁾		15,000	D	\$6.574		500 ⁽⁷⁾		D	
		Т	able II	- Deriva (e.g., p	ative S puts,	Secu calls	irities s, wai	rant	quired, s, optic	Dis ons,	posed of converti	, or Ben ble sec	eficiall urities)	y 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 Date, if any (Month/Day/Year)		4. Transaction Code (Instr. 8)		5. Number		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)			Expiration Date	Title	Amount or Number of Shares					
Director Stock Option	\$4.31								12/22/20	006	12/22/2014	Common Stock, \$.001 par value	15,029		15,029)	D	
Stock Option (right to buy)	\$5.01								04/26/20	006	04/26/2016	Common Stock	15,000		15,000)	D	
Stock Option (right to buy)	\$6.49								12/13/20	009	12/13/2016	Common Stock	15,000		15,000)	D	
Stock Option (right to buy)	\$4.85								(2)		06/18/2017	Common Stock	15,000		15,000)	D	
Stock Option (right to buy)	\$2.73								(3)		12/12/2017	Common Stock	20,000		20,000)	D	
Stock Option (right to buy)	\$0.7								(4)		05/13/2019	Common Stock	15,000		15,000)	D	
Stock Option (right to buy)	\$2.85								(5)		12/31/2019	Common Stock, \$.001 par value	7,500		7,500		D	
Stock Option (right to buy)	\$5.09								03/31/20	011	03/31/2020	Common Stock, \$.001 par value	15,000		15,000)	D	
Stock Option (right to buy)	\$4.77								(6)		12/31/2020	Common Stock	30,000		30,000)	D	

- 1. Proceeds from the sales reported on this form were used to offset the reporting person's payment of tax obligations triggered by the vesting of previously awarded restricted stock. The price reported in column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$6.55 to \$6.62, inclusive. The reporting person undertakes to provide to the Issuer, any security holder of the Issuer or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the ranges set forth.
- 2. 5,000 shares vest on each of 6/18/08, 6/18/09 and 6/18/10.
- 3. 6,667 shares vest on each of 12/12/08 and 12/12/09; 6,666 shares vest on 12/12/10.
- 4. 5,000 shares vest on each of 12/31/09, 6/30/10 and 12/31/10.
- $5.\ 3,750\ shares\ vest\ on\ each\ of\ 12/31/2010\ and\ 12/31/2011.$
- 6. 10,000 shares vest on each of 12/31/2011, 12/31/2012 and 12/31/2013.
- 7. Includes grants of restricted stock with restrictions that lapsed as to 3,750 shares on December 31, 2010 and as to 15,000 shares on March 31, 2011; and restrictions that will lapse as to 3,750 shares on December 31, 2011.

<u>/s/ Murray Brennan</u> <u>05/10/2011</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.

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