BRENNAN MURRAY

Check this box

if no longer

subject to

Form 4

January 04, 2011

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

OMB

OMB APPROVAL

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES Section 16. Form 4 or Form 5 obligations

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section

30(h) of the Investment Company Act of 1940

1(b).

(Print or Type Responses)

may continue.

See Instruction

1. Name and Address of Reporting Person *

BRENNAN MURRAY

2. Issuer Name and Ticker or Trading Symbol

5. Relationship of Reporting Person(s) to

Issuer

ZIOPHARM ONCOLOGY INC

[ZIOP]

3. Date of Earliest Transaction (Last) (First) (Middle)

(Month/Day/Year) 12/31/2010

X_ Director 10% Owner

(Check all applicable)

Officer (give title

Other (specify

MEMORIAL SLOAN KETTERING CANCER CENTER, 1275 YORK

AVENUE

(Street) 4. If Amendment, Date Original

Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check

Applicable Line)

X Form filed by One Reporting Person Form filed by More than One Reporting

NEW YORK, NY 10021

(City) (State) (Zip)

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

1.Title of Security (Instr. 3)

2. Transaction Date 2A. Deemed (Month/Day/Year)

Execution Date, if

(Month/Day/Year)

3. 4. Securities TransactionAcquired (A) or Code Disposed of (D) (Instr. 8) (Instr. 3, 4 and 5)

5. Amount of Securities Beneficially Owned

6. Ownership 7. Nature of Form: Direct Indirect (D) or Beneficial Indirect (I) Ownership (Instr. 4) (Instr. 4)

Following Reported

(A) Transaction(s) (Instr. 3 and 4) Code V Amount (D) Price

Common Stock,

\$.001 par value

 $67,500 \stackrel{(1)}{=}$ D

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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$\label{thm:convergence} \begin{tabular}{ll} Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned \\ (e.g., puts, calls, warrants, options, convertible securities) \end{tabular}$

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. Transacti Code (Instr. 8)	5. Number of corderivative Securities Acquired (A or Disposed (D) (Instr. 3, 4, and 5)	Expiration Da (Month/Day/Y	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Underlying Securities (Instr. 3 and 4)	
				Code V	(A) (Date Exercisable	Expiration Date	Title	Amount or Number of Shares	
Director Stock Option	\$ 4.31					12/22/2006	12/22/2014	Common Stock, \$.001 par value	15,029	
Stock Option (right to buy)	\$ 5.01					04/26/2006	04/26/2016	Common Stock	15,000	
Stock Option (right to buy)	\$ 6.49					12/13/2009	12/13/2016	Common Stock	15,000	
Stock Option (right to buy)	\$ 4.85					<u>(2)</u>	06/18/2017	Common Stock	15,000	
Stock Option (right to buy)	\$ 2.73					(3)	12/12/2017	Common Stock	20,000	
Stock Option (right to buy)	\$ 0.7					<u>(4)</u>	05/13/2019	Common Stock	15,000	
Stock Option (right to buy)	\$ 2.85					<u>(5)</u>	12/31/2019	Common Stock, \$.001 par value	7,500	
Stock Option (right to buy)	\$ 5.09					03/31/2011	03/31/2020	Common Stock, \$.001 par value	15,000	
	\$ 4.77	12/31/2010		A	30,000	(6)	12/31/2020		30,000	

Stock Common Option Stock (right to

Reporting Owners

Reporting Owner Name / Address

Director 10% Owner Officer Other

BRENNAN MURRAY MEMORIAL SLOAN KETTERING CANCER CENTER 1275 YORK AVENUE NEW YORK, NY 10021



Signatures

buy)

/s/ Murray
Brennan
01/03/2011

**Signature of Date
Reporting Person

Explanation of Responses:

- * 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).
- Includes grants of restricted stock with restrictions that lapsed as to 3,750 shares on December 31, 2010 and restrictions that will lapse as to 15,000 shares on March 31, 2011 and as to 3,750 shares on December 31, 2011.
- (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.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

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