

BRENNAN MURRAY  
 Form 4  
 September 24, 2009

**FORM 4**

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

OMB APPROVAL

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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 OF SECURITIES**

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

(Print or Type Responses)

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 Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)

3. Date of Earliest Transaction  
 (Month/Day/Year)

Director  10% Owner  
 Officer (give title below)  Other (specify below)

**MEMORIAL SLOAN KETTERING  
 CANCER CENTER, 1275 YORK  
 AVENUE**

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)  
 Form filed by One Reporting Person  
 Form filed by More than One Reporting Person

(Street)

**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 (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 Ownership (Instr. 4)
			Code	V	Amount	(D)	Price
Common Stock, \$.001 par value	09/23/2009		A <sup>(6)</sup>		30,000	A	\$ 0
					45,000	D	

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

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SEC 1474 (9-02)

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**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 Underlying Securities (Instr. 3 and 4)	8. Price or Amount of Derivative Security (Instr. 3)	
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Director Stock Option	\$ 4.31					<u>(1)</u>	12/22/2014	Common Stock, \$0.01 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					<u>(2)</u>	12/13/2016	Common Stock	15,000
Stock Option (right to buy)	\$ 4.85					<u>(3)</u>	06/18/2017	Common Stock	15,000
Stock Option (right to buy)	\$ 2.73					<u>(4)</u>	12/12/2017	Common Stock	20,000
Stock Option (right to buy)	\$ 0.7					<u>(5)</u>	05/13/2019	Common Stock	15,000

## Reporting Owners

**Reporting Owner Name / Address**

**Relationships**

Director    10% Owner    Officer    Other

X

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

## Signatures

/s/ Murray  
Brennan

09/24/2009

\_\_Signature of  
Reporting Person

Date

## 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).
- (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.
- (3) 5,000 shares vest on each of 6/18/08, 6/18/09 and 6/18/10.
- (4) 6,667 shares vest on each of 12/12/08 and 12/12/09; 6,666 shares vest on 12/12/10.
- (5) 5,000 shares vest on each of 12/31/09, 6/30/10 and 12/31/10.
- (6) Grant of restricted stock; restrictions lapse on 9/23/2010.

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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