FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

<b>STATEMENT</b>	OF CHANGES	S IN BENEFICIAI	<b>OWNERSHIP</b>

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).

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*  MCINERNEY TIMOTHY						2. Issuer Name and Ticker or Trading Symbol ZIOPHARM ONCOLOGY INC [ ZIOP ]									5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  X Director 10% Owner				
(Last)	,	•	(Middle)			Date / / / / / / / / / / / / / / / / / / /		Tran	saction (Mo	onth/l	Day/Year)				Officer below)	(give title		Other (s	specify
ONE COVENTRY LANE					_ 4.1	If Am	endment,	Date	of Original	Filed	(Month/Da		Individual or Joint/Group Filing (Check Applicable						
(Street) HOPEW	ELL N	IJ	08525											Line)	Form fi	led by Mor		orting Person One Repo	I
(City)	(5	State)	(Zip)												Person				
		Tal	ole I - Noi	n-Deri	vativ	e Se	curitie	s Ac	quired,	Dis	posed o	f, or E	enef	icially	Owned				
1. Title of Security (Instr. 3)				Date	ansaction hth/Day/Year)		2A. Deemed Execution Date if any (Month/Day/Yea		Code (Instr		Disposed	ties Acquired (A) or I Of (D) (Instr. 3, 4 and		a) or 4 and	5. Amount of Securities Beneficially Owned Followi		Form (D) o	n: Direct	7. Nature of Indirect Beneficial Ownership (Instr. 4)
									Code	v	Amount	(A) (D)	or I	Price	Transaction(s) (Instr. 3 and 4)				(,
MCINERNEY TIMOTHY  (Last) (First) (Midde ONE COVENTRY LANE  Street) HOPEWELL NJ 0852  (City) (State) (Zip)  Table I  L. Title of Security (Instr. 3)  Common Stock, \$.001 par value  Table  L. Title of Derivative Security Instr. 3) 3. Transaction Date of Exercise Price of Derivative Security Security  Warrants Output Derivative Security  Warrants Output Derivative Security  Narrants Output Derivative Security  Narran				12/0	9/200	9			P		50,00	0 .	A	\$3.1(6)	208,205			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)	erivative Conversion Date Execution or Exercise (Month/Day/Year) if any (Month/Day Derivative)		3A. Deeme Execution if any (Month/Day	Date,	4. Transa Code ( 8)				6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title of Secu Underly Derivat (Instr. 3	rities ing ve Sec	urity (	3. 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)
				Ī					Date		Expiration		or	nount					
Warrants					Code	V	(A)	(D)	Exercisab	le [	Date	Title	+	ares					<u> </u>
to Purchase Common Stock	\$4.75								09/13/200	5 (	05/31/2012	Stock, \$.001 p value	120	,767		20,767	7	D	
Director Stock Option (right to buy)	\$4.31								(1)	(	07/20/2015	Commo Stock, \$.001 p value	15	,029		15,029	)	D	
Director Stock Option (right to buy)	\$5.01								04/26/200	6 (	04/26/2016	Commo Stock	<sup>n</sup> 15	,000		15,000	)	D	
Warrants to Purchase Common Stock	\$5.09								05/03/200	6 (	05/03/2013	Commo Stock, \$.001 p value	lan	,737		80,737		D	
Director Stock Option (right to buy)	\$6.49								(2)	1	12/13/2016	Commo Stock	<sup>n</sup> 15	,000		15,000	)	D	
Warrant	\$5.75								02/23/200	7	)2/23/2012	Commo	n 35	,739		35,739	9	D	
Stock Option (right to buy)	\$4.85								(3)		06/18/2017	Commo Stock	n 15	,000		15,000	)	D	
Stock Option (right to buy)	\$2.73								(4)		12/12/2017	Commo Stock	n 20	,000		20,000	)	D	
Stock Option (right to buy)	\$0.7								(5)		05/13/2019	Commo Stock	n 15	,000		15,000	)	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. Transa Code ( 8)		5. Number of Expiration Date (Month/Day/Year)  Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		7. Title an 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 Exercisable	Expiration Date	Title	Amount or Number of Shares				
Warrants to purchase common stock	\$2.04							09/15/2009	09/15/2014	Common Stock, \$.001 par value	50,000		50,000	D	
Warrants to purchase common stock	\$2.04							09/15/2009	09/15/2014	Common Stock	40,298		40,298	D	
Warrants to Purchase Common Stock	\$4.02	12/09/2009		P		25,000		12/09/2009	12/09/2014	Common Stock	25,000	\$0 <sup>(6)</sup>	25,000	D	

## **Explanation of Responses:**

- $1.\ 7{,}515$  shares vest on 7/20/06 and  $7{,}514$  shares vest on 7/20/07 .
- 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, 6/30/2010 and 12/31/2010.
- 6. Pursuant to purchase of units, each comprised of one share of common stock and a warrant to purchase 0.5 of a share of common stock, for a price per unit equal to \$3.10.

## Remarks:

Power of Attorney Form incorporated by reference to Exhibit 24.1 to the Form 4 filed by the Reporting Person on 9/24/2009.

/s/ Richard Bagley as attorney-12/09/2009 in-fact for Timothy McInerney

\*\* Signature of Reporting Person Date

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

- $^{\star}$  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.