SEC 2	Form 4	
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FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL OMB Number: 3235-0287 Estimated average burden 0.5 hours per response:

Section obligat	this box if no lo n 16. Form 4 or ions may contir tion 1(b).		STAT		purs	suant	t to Sectio	n 16(a		curiti	es Exchar	AL OW		RSF	ΗP	Estima	Numbe ated av per res	erage burder	3235-0287 1 0.5	
1. Name and Address of Reporting Person [*] BAGLEY RICHARD E				2. Issuer Name and Ticker or Trading Symbol ZIOPHARM ONCOLOGY INC [ZIOP]										k all applica	able)	Reporting Perso ble)		er /ner		
(Last) (First) (Middle) 197 EIGHTH STREET, SUITE 300				3. Date of Earliest Transaction (Month/Day/Year) 05/13/2009									X Officer (give title Othe below) below President, COO & Treasu					specify		
(Street) CHARLESTOWN MA 02129				4. lf	Ame	endment, [Date o						6. Ind Line) X	Form file	ed by One	roup Filing (Check Ap One Reporting Perso More than One Repo		on		
(City)	(S	itate)	(Zip)												Person					
		Та	ble I - Non-	-Deriva	tive	e Se	ecurities	s Ac		Dis	oosed o	of, or Be	nefic	cially	Owned					
1. Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Year			2A. Deemed Execution D if any (Month/Day/		ar) Code (8)	Transaction C Code (Instr. 5 8)		5)		l and	5. Amount of Securities Beneficially Owned Following Reported Transaction(s)		Form	Direct Indirect tr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
					_			Code	v	Amount	(A) or (D)		rice	(Instr. 3 a	nd 4)	4)				
Common	Stock, \$.00)1 par value													75,0	000		D		
			Table II - D (e									, or Bene ble secu			wned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Dat if any (Month/Day/Ye	Code (Instr.			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 Amoun of Securities Underlying Derivative Security (Instr. 3 and 4)			8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficia Owned Following Reported Transacti	e s dly g	Ownership Form: Direct (D) or Indirect (I) (Instr. 4	Beneficial Ownership t (Instr. 4)	
				Cod	le V	/	(A)	(D)	Date Exercisab		xpiration ate	Title	Amo or Num of Sh	ber		(Instr. 4)				
Stock Option (right to buy)	\$1.7								(1)	0	7/01/2014	Common Stock	150	,668		150,668		D		
Stock Option (right to buy)	\$4.31								(2)	0	6/08/2015	Common Stock	63,	197		63,197		D		
Stock Option (right to buy)	\$4.31								(3)	0	9/13/2015	Common Stock	27,	417	27,417		.7	D		
Stock Option (right to buy)	\$5.01								04/26/200	6 0	4/26/2016	Common Stock	54,	873	54,873		'3	D		
Stock Option (right to buy)	\$5.01								(4)	0	4/26/2016	Common Stock	40,	000		40,000		D		
Stock Option (right to buy)	\$6.49								(5)	1	2/13/2016	Common Stock	20,	000		20,000		D		
Stock Option (right to buy)	\$4.85								(6)	0	6/18/2017	Common Stock	25,	000		25,00	0	D		
Stock Option (right to buy)	\$2.73								(7)	1	2/12/2017	Common Stock	75,	000		75,00	0	D		
Stock Option (right to buy)	\$2.14								(8)	0	6/25/2018	Common Stock	60,	000		60,00	0	D		
Common Stock (right to buy)	\$0.7	05/13/2009		A			100,000		(9)	0	5/13/2019	Common Stock	100	,000	\$0	100,00	00	D		

Explanation of Responses:

1. 50,223 shares vest on each of 7/1/05 and 7/1/06; 50,222 shares vest on 7/1/07.

2. 21,066 shares vest on each of 7/1/05 and 7/1/06; 21,065 shares vest on 7/1/07.

3. 9,139 shares vest on each of 9/13/05, 7/1/06 and 7/1/07.

4. 20,000 shares vest immediately; the remainder vest on 12/14/06.

5. 6,667 shares vest on each of 12/13/07 and 12/13/08; 6,666 shares vest on 12/13/09.

6. 8,334 shares vest on 6/18/08; 8,333 shares vest on each of 6/18/09 and 6/18/10.

- 7. 25,000 shares vest on each of 12/12/08, 12/12/09 and 12/12/10.
- 8. 20,000 shares vest on each of 6/25/2009, 6/25/2010 and 6/25/2011.
- 9. 25,000 shares vest immediately; 25,000 shares vest on each of 8/13/2009, 11/13/2009 and 2/13/2010.

/s/ Richard E. Bagley

05/14/2009

** 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.