FORM 4

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549
vvasinigton,	D. C.	20040

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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* BAGLEY RICHARD E						2. Issuer Name and Ticker or Trading Symbol ZIOPHARM ONCOLOGY INC [ZIOP]								(Che	Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner						
(Last) 197 EIG	•	irst) EET, SUITE 300	(Middle)			3. Date of Earliest Transaction (Month/Day/Year) 12/13/2006									Officer (circo title			10% Owner Other (specify below) x Treasurer	specify		
(Street) CHARLESTOWN MA 02129 (City) (State) (Zip)				4.	4. If Amendment, Date of 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 Person							
		Ta	ble I - Nor	n-Deriv	vativ	re Se	curitie	s A	cquired,	Disp	osed o	of, or E	Bene	ficially	y Owned						
1. Title of Security (Instr. 3)			2. Trans	ransaction		2A. Deemed Execution Date, if any (Month/Day/Year)		e, Transaction Disposed Code (Instr. 5)		rities Acquired (A) ed Of (D) (Instr. 3, 4		(A) or	5. Amour Securities Beneficia Owned For Reported	s Illy ollowing	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)				
									Code	V	Amount	(A (D) or)	Price	Transacti (Instr. 3 a						
Common	Stock, \$.00)1 par value													()		D			
			Table II -						quired, D s, option						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 D if any (Month/Day/	ate, T	4. Transaction Code (Instr. 8) 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Ins 3, 4 and 5)		ive ies ed ed nstr.	6. Date Exercisable Expiration Date (Month/Day/Year)			7. Title and Amou of Securities Underlying Derivative Securi (Instr. 3 and 4)		curity	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficia Owned Following Reported Transacti (Instr. 4)	e s Illy	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)			
				c	Code	v	(A)	(D)	Date Exercisable		piration ate	Title	or Nu	nount ımber Shares							
Stock Option (right to buy)	\$1.7								(1)	07	//01/2014	Commo Stock	n 15	50,668		150,66	58	D			
Stock Option (right to buy)	\$4.31								(2)	06	5/08/2015	Commo Stock	n 6	3,197		63,19	17	D			
Stock Option (right to buy)	\$4.31								(3)	09	/13/2015	Commo Stock	n 2	7,417		27,41	7	D			
Stock Option (right to buy)	\$5.01								04/26/2006	04	/26/2016	Commo Stock	n 5	4,873		54,87	3	D			
Stock Option (right to buy)	\$5.01								(4)	04	/26/2016	Commo Stock	n 4	0,000		40,00	0	D			
Stock Option (right to	\$6.49	12/13/2006			A		20,000		(5)	12	2/13/2016	Commo	n 2	0,000	\$0	20,00	0	D			

Explanation of Responses:

buv)

- 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.

/s/ Richard E. Bagley

01/18/2007

** 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.