

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

OMB APPROVAL

OMB Number: 3235-0287

Estimated average burden hours per response: 0.5

1. Name and Address of Reporting Person* <u>BAGLEY RICHARD E</u> (Last) (First) (Middle) <u>197 EIGHTH STREET, SUITE 300</u> (Street) <u>CHARLESTOWN MA</u> <u>02129</u> (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>ZIOPHARM ONCOLOGY INC [ZIOP]</u> 3. Date of Earliest Transaction (Month/Day/Year) <u>06/18/2007</u> 4. If Amendment, Date of Original Filed (Month/Day/Year)	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) <u>President, COO & Treasurer</u> 6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person Form filed by More than One Reporting Person
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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 Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock, \$.001 par value								0	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. 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 Securities Underlying Derivative Security (Instr. 3 and 4)		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				
Stock Option (right to buy)	\$1.7							(1)	07/01/2014	Common Stock	150,668		150,668	D	
Stock Option (right to buy)	\$4.31							(2)	06/08/2015	Common Stock	63,197		63,197	D	
Stock Option (right to buy)	\$4.31							(3)	09/13/2015	Common Stock	27,417		27,417	D	
Stock Option (right to buy)	\$5.01							04/26/2006	04/26/2016	Common Stock	54,873		54,873	D	
Stock Option (right to buy)	\$5.01							(4)	04/26/2016	Common Stock	40,000		40,000	D	
Stock Option (right to buy)	\$6.49							(5)	12/13/2016	Common Stock	20,000		20,000	D	
Stock Option (right to buy)	\$4.85	06/18/2007		A		25,000		(6)	06/18/2017	Common Stock	25,000	\$0	25,000	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.

/s/ Richard E. Bagley

06/19/2007

** 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.

