FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

	OMB APPROVAL
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3235-0287

0.5

OMB Number: Estimated average burden

hours per response:

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

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1. Name and Address of Reporting Person* BAGLEY RICHARD E						2. Issuer Name and Ticker or Trading Symbol ZIOPHARM ONCOLOGY INC [ZIOP]								(Cho	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner					
(Last) (First) (Middle) ONE FIRST AVE, BUILDING 34 NAVY YARD PLAZA						3. Date of Earliest Transaction (Month/Day/Year) 12/31/2010									X Officer (give title below) Other (specify below) President, COO & Treasurer					
					4.	4. If Amendment, Date of Original Filed (Month/Day/Year)									5. Individual or Joint/Group Filing (Check Applicable ine) X Form filed by One Reporting Person Form filed by More than One Reporting					
(City)	(S	State)	(Zip)												Person					
1 Title of	Sacurity (Inc.		ble I - Nor	1-Deriv		_			quired,	Dis					y Owned	+ of	6.00	nership	7. Nature of	
I. Title of	Security (Ins	u. 3)		Date		execution Date, if any (Month/Day/Year			r, Transa Code (I	nstr.	Disposed	Securities Acquired (A) or Record			Securities Beneficia Owned Fo Reported	Form (D) o ollowing (I) (In		Direct Indirect str. 4)	Indirect Beneficial Ownership (Instr. 4)	
<u> </u>	G: 1 # 00	- I		4.0./04	/2.0				Code	V	Amount	_	(D)	Price	Transacti (Instr. 3 a	nd 4)		<u> </u>		
Common	Stock, \$.00)1 par value	Table II -	12/31			uritias	Aco	F ⁽¹⁰⁾	ien	7,900		D Renef	<u> </u>	\$4.77 153,767 D					
	1								s, option						Owned					
1. Title of Derivative Security (Instr. 3)	erivative Conversion Date ecurity or Exercise (Month/Day/Year		3A. Deemed Execution Da if any (Month/Day/)	Co	e, Transaction Code (Instr.		Derivative		6. Date Exercisabl Expiration Date (Month/Day/Year)			7. Title and Amo of Securities Underlying Derivative Secu (Instr. 3 and 4)		ecurity	8. Price of Derivative Security (Instr. 5)	derivative Securities Beneficially Owned Following Reported		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)	
				Co	ode	v	(A)	(D)	Date Exercisabl		expiration Date	Title	O N	mount r lumber of Shares		Transacti (Instr. 4)				
Stock Option (right to buy)	\$1.7								(1)	0	7/01/2014	Comi		50,668		150,60	68	D		
Stock Option (right to buy)	\$4.31								(2)	0	6/08/2015	Comi		63,197		63,19	17	D		
Stock Option (right to buy)	\$4.31								(3)	0	9/13/2015	Comi		27,417		27,41	.7	D		
Stock Option (right to buy)	\$5.01								04/26/200	6 0	4/26/2016	Comi		54,873		54,87	'3	D		
Stock Option (right to buy)	\$5.01								(4)	0	4/26/2016	Comi		40,000		40,00	00	D		
Stock Option (right to buy)	\$6.49								(5)	1	2/13/2016	Comi		20,000		20,00	00	D		
Stock Option (right to buy)	\$4.85								(6)	0	6/18/2017	Comi		25,000		25,00	00	D		
Stock Option (right to buy)	\$2.73								(7)	1	2/12/2017	Comi		75,000		75,00	00	D		
Stock Option (right to buy)	\$2.14								(8)	0	6/25/2018	Comi		60,000		60,00	00	D		
Stock Option (right to buy)	\$0.7								(9)	0	5/13/2019	Comi		100,000		100,00	00	D		
Stock Option (right to	\$2.85								(11)	1	2/31/2019	Comi		50,000		50,00	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)	Transaction Code (Instr. 8)		Derivative		6. Date Exerc Expiration Da (Month/Day/Y	ate	7. Title and of Securiti Underlying Derivative (Instr. 3 ar	ies g Security	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported	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		Transaction(s) (Instr. 4)		
Stock Option (right to buy)	\$4.77	12/31/2010		A		100,000		(12)	12/31/2020	Common Stock	100,000	\$0	100,000	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.
- 7. 25,000 shares vest on each of 12/12/08, 12/12/09 and 12/12/10.
- $8.\ 20,000\ shares\ vest\ on\ each\ of\ 6/25/2009,\ 6/25/2010\ and\ 6/25/2011.$
- $9.\ 25{,}000\ shares\ vest\ immediately;\ 25{,}000\ shares\ vest\ on\ each\ of\ 8/13/2009,\ 11/13/2009\ and\ 2/13/2010.$
- 10. Disposition represents shares forfeited to satisfy withholding tax obligations upon the vesting of a restricted stock grant.
- 11. 16,667 shares vest on each of 12/31/2010 and 12/31/2011 and 16,666 shares vest on 12/31/2012.
- 12.33,334 shares vest on 12/31/2011 and 33,333 shares vest on each of 12/31/2012 and 12/31/2013.

/s/ Richard E. Bagley 01/03/2011

** 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.

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