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
hours per response: 0.5

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* <u>CANNON JAMES ANTHONY</u>						2. Issuer Name and Ticker or Trading Symbol ZIOPHARM ONCOLOGY INC [ZIOP]								Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner						
(Last) (First) (Middle) BBDO						3. Date of Earliest Transaction (Month/Day/Year) 03/31/2010									Officer (give title Other (specify below) below)					
1285 AVENUE OF THE AMERICAS (Street)						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						
NEW YORK NY 10019					-										X Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City)	(S		(Zip)	Dori	vativ	0.50	ouritio.	. ^ ^	auirod F	Nicn	osod o	f or Do	nofici	ally Ou	mod					
Table I - Non-Deriva 1. Title of Security (Instr. 3) 2. Transa Date (Month/D					saction	n i	2A. Deemed Execution Date if any (Month/Day/Yea		3. Transaction Code (Instr.		4. Securities Acquire Disposed Of (D) (Inst		ed (A) o	5. A Sec Bei	5. Amount of Securities Fo Beneficially (D)		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)	
								Code	ode V Amount		(A) ((D)	r Pric	Tra					,		
Common Stock, \$.001 par value 03/31/									A ⁽¹⁾			15,000 A			242,500 ⁽²⁾			D		
		•	Table II - I	Deriva (e.g., ¡	ative puts,	Secu calls	urities s, warr	Acq ants	uired, Dis s, options	spo s, co	sed of, invertil	or Ben ole secu	eficial ırities	ly Own)	ed					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution I if any (Month/Day	Date,	4. Transa Code (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 ar of Securi Underlyir Derivativ (Instr. 3 a	iies ig e Securit	Deriva Secur	ative ity	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		piration ate	Title	Amount or Number of Shares	er						
Director Stock Option (right to buy)	\$4.31								12/22/2006	12	/22/2014	Common Stock, \$.001 par value	15,02	9		15,029		D		
Director Stock Option (right to buy)	\$5.01								04/26/2006	04	/26/2016	Common Stock	15,00	0		15,000		D		
Director Stock Option (right to buy)	\$6.49								12/13/2009	12	/13/2016	Common Stock	15,00	0		15,000		D		
Director Stock Option (right to buy)	\$4.85								(3)	06	/18/2017	Common Stock	15,00	0		15,000		D		
Stock Option (right to buy)	\$2.73								(4)	12	/12/2017	Common Stock	20,00	0		20,000	0	D		
Stock Option (right to buy)	\$0.7								(5)	05	/13/2019	Common Stock	15,00	0		15,000	0	D		
Warrants to Purchase common stock	\$4.02								12/09/2009	12	/09/2014	Common Stock	87,50	0		87,500	0	D		
Stock Option (right to buy)	\$2.85								(6)	12	/31/2019	Common Stock, \$.001 par value	7,50	0		7,500		D		
Stock Option (right to buy)	\$5.09	03/31/2010			A		15,000		03/31/2011	03	/31/2020	Common Stock, \$.001 par value	15,00	\$(0))	15,000	0	D		

Explanation of Responses:

- 1. Grant of restricted stock; restrictions lapse on the anniversary of the date of grant.
- 2. In addition to the current grant, includes a prior grant of restricted stock with restrictions that will lapse as to 3,750 shares on each of December 31, 2010 and December 31, 2011.
- $3.\,5,\!000$ 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. 3,750 shares vest on each of 12/31/2010 and 12/31/2011.

/s/ James A. Cannon

04/01/2010

** 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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