

**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>ROSENWALD LINDSAY A MD</u>  (Last) (First) (Middle) <u>787 SEVENTH AVENUE</u> <u>48TH FLOOR</u>  (Street) <u>NEW YORK NY 10019</u>  (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>ZIOPHARM ONCOLOGY INC [ ZIOP ]</u>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  Director <input checked="" type="checkbox"/> 10% Owner  Officer (give title below) Other (specify below)
	3. Date of Earliest Transaction (Month/Day/Year) <u>05/03/2006</u>	
	4. If Amendment, Date of Original Filed (Month/Day/Year)	

**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								476,678	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				
Warrants	\$4.75							05/31/2005	05/31/2012	Common Stock	221,011		221,011	D	
Warrants	\$4.75							12/23/2004	12/23/2011	Common Stock	62,621		62,621	I	Owned by Paramount Biocapital Investments, LLC <sup>(1)</sup>
Common Stock	\$0.01							02/13/2006	(3)	Common Stock	563,296		563,296	I	Owned by individuals and pledged to Lindsay A. Rosenwald, M.D. to secure certain obligations <sup>(2)</sup>
Warrants	\$5.09	05/03/2006		j <sup>(4)</sup>		250,188		05/03/2006	05/03/2013	Common Stock	250,188	\$0	250,188	D	

**Explanation of Responses:**

- These Warrants are held by Paramount Biocapital Investments, LLC, of which Dr. Rosenwald is managing member. Dr. Rosenwald disclaims beneficial ownership of these Warrants, except to the extent of his pecuniary interest therein, if any.
- These Shares are held by certain individuals and with respect to which Dr. Rosenwald has certain call rights pursuant to pledge agreements to secure certain obligations. Dr. Rosenwald disclaims beneficial ownership of these 563,296 pledged Shares, except to the extent of his pecuniary interest therein, if any.
- These call rights expire upon satisfaction of certain obligations of Dr. Rosenwald to a third party and may be extended indefinitely, although such obligations are currently contemplated to be satisfied (or not satisfied) by December 31, 2007.
- Paramount BioCapital, Inc. ("Paramount"), an NASD member broker dealer, acted as co-placement agent for the Issuer in a private placement of the Issuer's securities consummated on May 3, 2006. In connection with such activities, Paramount has designated to Dr. Rosenwald, among other compensation, warrants to purchase 250,188 shares of common stock, par value \$0.01 per share, of the Issuer. Dr. Rosenwald is chairman, Chief Executive Officer and sole stockholder of Paramount.

/s/ Lindsay A. Rosenwald, M.D. 05/05/2006

\*\* 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.