FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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 Addre	ess of Reporting Per	son [*]		ssuer Name and Ticl	0	Symbol		tionship of Reporting Person(s) to Issuer all applicable) Director 10% Owner				
(Last)	(First)	(Middle)		Date of Earliest Trans /29/2007	saction (Month	/Day/Year)		Officer (give title below)		(specify		
CRYOLIFE, IN 1655 ROBERT	U. S BOULEVARD,	N.W.	4.1	f Amendment, Date	of Original Filed	d (Month/Day/Year)	6. Individual or Joint/Group Filing (Check Applicable Line)					
(Street) KENNESAW	,						X	Form filed by On Form filed by Mo Person				
(City)	(State)	(Zip)										
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned												
		2. Transaction Date (Month/Day/Year	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securities Acquired (Disposed Of (D) (Instr.) and 5)		5. Amount of Securities Beneficially Owned	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership			

		(wonth/Day/rear)	8)					Owned	Indirect (I)	Ownership
			Code	v	Amount	(A) or (D)	Price	Following Reported Transaction(s) (Instr. 3 and 4)	(Instr. 4)	(Instr. 4)
Common Stock	05/29/2007		М		10,000	A	\$5.27	80,306	D	
Common Stock	05/29/2007		F		3,695	D	\$14.26	76,611	D	
Common Stock	05/29/2007		М		10,000	A	\$7.63	86,611	D	
Common Stock	05/29/2007		F		5,350	D	\$14.26	81,261	D	
Common Stock	05/29/2007		М		10,000	Α	\$ 5	91,261	D	
Common Stock	05/29/2007		F		3,506	D	\$14.26	87,755	D	
Common Stock	05/30/2007		F		5,700	D	\$14.5	82,055	D	
Common Stock	05/30/2007		F		100	D	\$14.52	81,955	D	
Common Stock	05/30/2007		F		200	D	\$14.53	81,755	D	

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

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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)					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	\$5.27	05/29/2007		м			10,000	06/30/2004	06/30/2009	Common Stock	10,000	\$ <mark>0</mark>	0	D	
Stock Option	\$7.63	05/29/2007		М			10,000	06/03/2005	06/03/2010	Common Stock	10,000	\$0	0	D	
Stock Option	\$5	05/29/2007		м			10,000	05/05/2006	05/05/2011	Common Stock	10,000	\$0	0	D	

Explanation of Responses:

Remarks:

/s/ Ronald C. Elkins, M.D.

D. <u>05/31/2007</u> rson Date

** Signature of Reporting Person 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.