FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

OMB APPROVAL									
OMB Number:	3235-0287								
Estimated average burden									
hours per response:	0.5								

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

Name and Address of Reporting Person*     THEODORE PHILIP A						2. Issuer Name and Ticker or Trading Symbol CRYOLIFE INC [ CRY ]									lationship ck all appli Directo	cable)	ng Pe	rson(s) to Is		
(Last) 1655 RC	,	rst) (	Middle) W.			3. Date of Earliest Transaction (Month/Day/Year) 09/04/2007							X	below	r (give title v) VP, General C		Other (s below) ounsel	specify		
(Street) KENNES (City)			30144 Zip)		4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable ne)  X Form filed by One Reporting Person Form filed by More than One Reporting Person					
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3)  2. Transaction Date (Month/Day/					Exe	Deemed cution Date, ny onth/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired ( Disposed Of (D) (Instr. 3 and 5)				5. Amo Securiti Benefic Owned Followi	es ially	Forr (D) o	n: Direct or rect (I)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
									Code	v	Amount (A) or (D)		or F	Price	Reporte Transac (Instr. 3	ed etion(s)	(Instr. 4)		(111311. 4)	
Common Stock 09/04/20						007			A		15,000(1)		\	\$ <mark>0</mark>	23	3,100		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)	if any	emed on Date, /Day/Year)		ransaction ode (Instr.		of		Date Date y/Yea	Amou Secur Unde Deriv		Title and mount of ecurities nderlying erivative ecurity (Instr. 3 and 4)		3. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	ly C	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisabl		Expiration Date	Title	or	ount nber ires						
Common Stock Option	\$9.26	09/04/2007			A		85,000		09/04/2008	(2)	09/04/2014	Common Stock	85,	000	\$9.26	85,000		D		

## Explanation of Responses:

- 1. Shares are restricted and subject to cliff vesting on the third anniversary of the initial grant, which will occur September 4, 2010.
- 2. Options are subject to three years ratable vesting, with 1/3 vesting on September 4th of 2008, 2009, and 2010.

## Remarks:

/s/ Philip A. Theodore

09/05/2007

\*\* 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.

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.