FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL										
OMB Number:	3235-0287									
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0.5

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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).

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>Arm Douglas M</u>					2. Issuer Name and Ticker or Trading Symbol CYTORI THERAPEUTICS, INC. [CYTX]							5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
				٦	110	71(1 11		THE LOTTE	<u> </u>	CIIM	1	Directo	r		10% Ow	ner	
(Last) (First) (Middle)					3. Date of Earliest Transaction (Month/Day/Year)							Officer below)	(give title		Other (s below)	pecify	
(Last) (First) (Middle) 3020 CALLAN ROAD				04	04/30/2009								Sr. VP - Operations				
					4. If Amendment, Date of Original Filed (Month/Day/Year)					6. In	6. Individual or Joint/Group Filing (Check Applicable						
(Street)								-			Line						
SAN DII	EGO C	A	92121								X Form filed by One Reporting Person Form filed by More than One Reporting						
(City)	(S	state)	(Zip)									Person		e ulali	One Repon	iiig	
		Tal	ble I - Non-D	erivativ	/e Se	curitie	s Ac	quired, Di	sposed o	f, or Ber	neficiall	y Owned					
Date			Transaction te onth/Day/Y	Execution Date,		Code (Instr. 5)			d (A) or r. 3, 4 and		es Formally (D) (Following (I) (I		m: Direct or Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership			
							Code V	Amount	(A) or (D)	Price	Reported Transact (Instr. 3 a	ion(s)			(Instr. 4)		
			Table II - Der (e.g					uired, Disp s, options,				Owned	•				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	ercise (Month/Day/Year) of ative	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)		of I		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 derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	s lly	Ownership Form: Direct (D) or Indirect (I) (Instr. 4	Beneficial Ownership (Instr. 4)	
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares						
Employee Stock Option (Right to	\$1.79	04/30/2009		A		25,000		05/31/2009 ⁽¹⁾	04/30/2019	Common Stock	25,000	\$0	185,00	0	D		

Explanation of Responses:

1. The Employee Stock Options vest 1/48th each month from the date of grant.

Remarks:

Jonathan E. Soneff, By Power of Attorney For: Douglas Arm

05/04/2009

** 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.