

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
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1. Name and Address of Reporting Person* CALHOUN CHRISTOPHER J <hr/> (Last) (First) (Middle) 3020 CALLAN ROAD <hr/> (Street) SAN DIEGO CA 92121 <hr/> (City) (State) (Zip)			2. Issuer Name and Ticker or Trading Symbol CYTORI THERAPEUTICS, INC. [CYTX]		5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) Chief Executive Officer	
			3. Date of Earliest Transaction (Month/Day/Year) 12/22/2010			
			4. If Amendment, Date of Original Filed (Month/Day/Year)		6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> 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/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	12/22/2010		s ⁽¹⁾		200	D	\$5.59	131,050	D	
Common Stock	12/22/2010		s ⁽¹⁾		5,700	D	\$5.6	125,350	D	
Common Stock	12/22/2010		s ⁽¹⁾		2,373	D	\$5.61	122,977	D	
Common stock	12/22/2010		s ⁽¹⁾		500	D	\$5.62	122,477	D	
Common stock	12/22/2010		s ⁽¹⁾		3,145	D	\$5.63	119,332	D	
Common stock	12/22/2010		s ⁽¹⁾		1,026	D	\$5.64	118,306	D	
Common stock	12/22/2010		s ⁽¹⁾		2,800	D	\$5.65	115,506	D	
Common stock	12/22/2010		s ⁽¹⁾		3,039	D	\$5.66	112,467	D	
Common stock	12/22/2010		s ⁽¹⁾		4,200	D	\$5.67	108,267	D	
Common stock	12/22/2010		s ⁽¹⁾		4,600	D	\$5.68	103,667	D	
Common stock	12/22/2010		s ⁽¹⁾		1,212	D	\$5.69	102,455	D	
Common stock	12/22/2010		s ⁽¹⁾		4,255	D	\$5.7	98,200	D	
Common stock	12/22/2010		s ⁽¹⁾		362	D	\$5.71	97,838	D	
Common stock	12/22/2010		s ⁽¹⁾		1,200	D	\$5.72	96,638	D	
Common stock	12/22/2010		s ⁽¹⁾		3,100	D	\$5.75	93,538	D	
Common stock	12/22/2010		s ⁽¹⁾		2,813	D	\$5.76	90,725	D	
Common stock	12/22/2010		s ⁽¹⁾		700	D	\$5.77	90,025	D	
Common stock	12/22/2010		s ⁽¹⁾		600	D	\$5.8	89,425	D	
Common stock	12/22/2010		s ⁽¹⁾		1,000	D	\$5.81	88,425	D	
Common stock	12/22/2010		s ⁽¹⁾		4,700	D	\$5.82	83,725	D	
Common stock	12/22/2010		s ⁽¹⁾		500	D	\$5.83	83,225	D	
Common stock	12/22/2010		s ⁽¹⁾		100	D	\$5.86	83,125	D	
Common Stock								36,850	I	By 401(k) Plan

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

1. Title of Derivative (Instr. 3)	2. Conversion Date (Month/Day/Year)	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	Code V Transaction Code (Instr. 8)	A) Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	Date Exercisable (Month/Day/Year)	Expiration Date (Month/Day/Year)	Title and Amount of Underlying 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)	Beneficially Owned					
													** Signature of Reporting Person	Date				
1. Shares sold pursuant to a 10b5-1 Plan. Remarks: Security								Jonathan E. Soneff, By Power of Attorney For: Christopher J. Calhoun						Amount of Reporting Person of Shares				
Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.													Code (A) (D)	Date Exercisable	Expiration Date	Title	Amount of Reporting Person of Shares	Date

** 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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