

## INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

OMB APPROVAL

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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934  
or Section 30(h) of the Investment Company Act of 1940

<b>1. Name and Address of Reporting Person*</b> <u>REUTER BRUCE</u>  (Last) (First) (Middle) <u>C/O CYTORI THERAPEUTICS, INC.</u> <u>3020 CALLAN ROAD</u>  (Street) <u>SAN DIEGO CA 92121</u>  (City) (State) (Zip)	<b>2. Date of Event Requiring Statement (Month/Day/Year)</b> <u>11/09/2006</u>	<b>3. Issuer Name and Ticker or Trading Symbol</b> <u>CYTORI THERAPEUTICS, INC. [ CYTX ]</u>  <b>4. Relationship of Reporting Person(s) to Issuer (Check all applicable)</b> Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) <u>Sen. VP Intern Sales, Marketin</u>	<b>5. If Amendment, Date of Original Filed (Month/Day/Year)</b>  <b>6. Individual or Joint/Group Filing (Check Applicable Line)</b> <input checked="" type="checkbox"/> Form filed by One Reporting Person Form filed by More than One Reporting Person
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### Table I - Non-Derivative Securities Beneficially Owned

1. Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
<u>Common Stock</u>	<u>4,193</u>	<u>D</u>	

### Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)	4. Conversion or Exercise Price of Derivative Security	5. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date				
<u>Employee Stock Option (Right to Buy)</u>	<u>11/09/2006<sup>(1)</sup></u>	<u>12/31/2007</u>	<u>Common Stock</u>	<u>100,000</u>	<u>7.34</u>	<u>D</u>
<u>Employee Stock Option (Right to Buy)</u>	<u>11/09/2006<sup>(1)</sup></u>	<u>12/31/2007</u>	<u>Common Stock</u>	<u>35,000</u>	<u>2.51</u>	<u>D</u>
<u>Employee Stock Option (Right to Buy)</u>	<u>11/09/2006<sup>(1)</sup></u>	<u>12/31/2007</u>	<u>Common Stock</u>	<u>30,000</u>	<u>3.09</u>	<u>D</u>
<u>Employee Stock Option (Right to Buy)</u>	<u>11/09/2006<sup>(1)</sup></u>	<u>12/31/2007</u>	<u>Common Stock</u>	<u>29,895</u>	<u>4.4</u>	<u>D</u>
<u>Employee Stock Option (Right to Buy)</u>	<u>11/09/2006<sup>(1)</sup></u>	<u>12/31/2007</u>	<u>Common Stock</u>	<u>13,020</u>	<u>4.16</u>	<u>D</u>
<u>Employee Stock Option (Right to Buy)</u>	<u>11/09/2006<sup>(1)</sup></u>	<u>12/31/2007</u>	<u>Common Stock</u>	<u>12,396</u>	<u>3.12</u>	<u>D</u>
<u>Employee Stock Option (Right to Buy)</u>	<u>11/09/2006<sup>(1)</sup></u>	<u>12/31/2007</u>	<u>Common Stock</u>	<u>4,375</u>	<u>7.04</u>	<u>D</u>
<u>Employee Stock Option (Right to Buy)</u>	<u>12/09/2006<sup>(2)</sup></u>	<u>11/09/2016</u>	<u>Common Stock</u>	<u>70,000</u>	<u>4.68</u>	<u>D</u>

**Explanation of Responses:**

1. The Employee Stock Options are fully vested.

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

**Remarks:**

In connection with the elimination of Mr. Reuter's position of Senior Vice President of Business Development on July 25, 2006, the reporting person, who had been subject to Section 16 in his former capacity, terminated insider status on July 25, 2006. On November 9, 2006, Mr. Reuter was appointed Senior Vice President of International Sales, Marketing & Distribution resuming his Section 16 reporting status.

Bruce Reuter

11/17/2006

\*\* 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 5 (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.

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