

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549
SCHEDULE 13G/A
(Amendment No. 1)
UNDER THE SECURITIES EXCHANGE ACT OF 1934

CYTORI THERAPEUTICS, INC.

(Name of Issuer)

COMMON STOCK

(Title of Class of Securities)

23283K105

(CUSIP Number)

DECEMBER 31, 2009

(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

Rule 13d-1(b)
 Rule 13d-1(c)
 Rule 13d-1(d)

*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

PERSONS WHO ARE TO RESPOND TO THE COLLECTION OF INFORMATION CONTAINED IN THIS FORM ARE NOT REQUIRED TO RESPOND UNLESS THE FORM DISPLAYS A CURRENTLY VALID OMB CONTROL NUMBER.

SEC 1745 (12-02)

1. NAMES OF REPORTING PERSONS
I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)

GAGNON SECURITIES LLC

2. CHECK THE APPROPRIATE BOX IF A GROUP* (a)
(b)

3. SEC USE ONLY

4. CITIZENSHIP OR PLACE OF ORGANIZATION

DELAWARE LIMITED LIABILITY COMPANY

5. NUMBER OF SHARES
SOLE VOTING POWER

BENEFICIALLY OWNED BY	6.	SHARED VOTING POWER	1,141,443
EACH REPORTING PERSON WITH:	7.	SOLE DISPOSITIVE POWER	0
	8.	SHARED DISPOSTIVE POWER	1,141,443
9.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		1,141,443
10.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)		
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)		2.9 %
12.	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)		IA

13. NAMES OF REPORTING PERSONS
I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)

NEIL GAGNON

14. CHECK THE APPROPRIATE BOX IF A GROUP* (a)
(b) |X|

15. SEC USE ONLY

16. CITIZENSHIP OR PLACE OF ORGANIZATION

USA

NUMBER OF SHARES 17. SOLE VOTING POWER 1,624,625

BENEFICIALLY OWNED BY 18. SHARED VOTING POWER 1,393,510

EACH REPORTING 19. SOLE DISPOSITIVE POWER 1,624,625

PERSON WITH: 20. SHARED DISPOSTIVE POWER 1,459,962

21. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 3,084,587

22. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

23. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 7.8 %

24. TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) IN

ITEM 1.

(a) Name of Issuer: Cytori Therapeutics, Inc.
3020 Callan Road

(b) Address of Issuer's Principal Executive Offices: San Diego, CA 92121

Item 2.

This Schedule 13G/A is being filed by Gagnon Securities LLC and Neil Gagnon (together, the "Reporting Persons"). Gagnon Securities LLC is an investment adviser registered under Section 203 of the Investment Advisers Act of 1940 and furnishes investment advice to several customer accounts, foundations, partnerships, trusts, and private investment funds (collectively, the "Funds"). Mr. Gagnon is the managing member and the principal owner of Gagnon Securities LLC. In its role as investment manager to the Funds, Gagnon Securities LLC shares investment and/or voting power with Mr. Gagnon with respect to certain securities of the Issuer described in this schedule that are owned by the Funds. Additionally, Mr. Gagnon has sole voting power and sole dispositive power with respect to certain securities of the Issuer, he shares voting power and dispositive power with respect to certain other securities of the Issuer with certain persons, and he shares dispositive power with certain persons but has no voting power with respect to certain other securities of the Issuer. The Reporting Persons expressly disclaim beneficial ownership of all securities held in the Funds' accounts. No single client's interest as reported in the customer accounts at Gagnon Securities LLC exceeds 5% of the outstanding Common Stock of the Issuer. In addition, the filing of this Schedule 13G/A shall not be construed as an admission that the Reporting Persons or any of their affiliates are beneficial owners of any securities covered by this Schedule 13G/A for any other purposes than Section 13(d) of the Securities Exchange Act of 1934.

(a) Name of Person Filing:

(b) Address of Principal Business Office or, if none, Residence:

1370 Ave. of the Americas, Suite 2400
New York, NY 10019

(c) Citizenship:

GAGNON SECURITIES LLC: Delaware Limited Liability Company
NEIL GAGNON: USA

(d) Title of Class of Securities: Common Stock, par value \$0.001 per share

(e) CUSIP Number: 23283K105

(c) Number of shares as to which the person has:

(i) Sole power to vote or to direct the vote:	GAGNON SECURITIES LLC:	0
	NEIL GAGNON:	1,624,625
(ii) Shared power to vote or to direct the vote:	GAGNON SECURITIES LLC:	1,141,443
	NEIL GAGNON:	1,393,510
(iii) Sole power to dispose or to direct the disposition of:	GAGNON SECURITIES LLC:	0
	NEIL GAGNON:	1,624,625
(iv) Shared power to dispose or to direct the disposition of:	GAGNON SECURITIES LLC:	1,141,443
	NEIL GAGNON:	1,459,962

ITEM 5 OWNERSHIP OF FIVE PERCENT OR LESS OF A CLASS

Not applicable.

ITEM 6 OWNERSHIP OF MORE THAN FIVE PERCENT ON BEHALF OF ANOTHER PERSON

The Funds described above in Item the right to receive or the power to direct the receipt of dividends from, or the proceeds from the sale of, securities held in their respective accounts. To the knowledge of the Reporting Person, the interest in any such Fund does not exceed 5% of the class of securities. The Reporting Person disclaims beneficial ownership of all such securities.

ITEMS 7 - 9 Not Applicable

ITEM 10 CERTIFICATION

The following certification shall be included if the statement is filed pursuant to ss.240.13d-1(b): By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect. [X]

SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

February 12, 2010
Date

GAGNON SECURITIES LLC

/s/ Neil Gagnon
Signature

Neil Gagnon
Name/Title

February 12, 2010
Date

/s/ Neil Gagnon
Signature

Neil Gagnon
Name/Title

The original statement shall be signed by each person on whose behalf the statement is filed or his authorized representative. If the statement is signed on behalf of a person by his authorized representative other than an executive officer or general partner of the filing person, evidence of the representative's authority to sign on behalf of such person shall be filed with the statement, provided, however, that a power of attorney for this purpose which is already on file with the Commission may be incorporated by reference. The name and any title of each person who signs the statement shall be typed or printed beneath his signature.

NOTE: Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. SEE ss.240.13d-7 for other parties for whom copies are to be sent.

ATTENTION: INTENTIONAL MISSTATEMENTS OR OMISSIONS OF FACT CONSTITUTE FEDERAL CRIMINAL VIOLATIONS (SEE 18 U.S.C. 1001)