
**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

FORM 8-K

CURRENT REPORT

**Pursuant to Section 13 or 15(d) of the
Securities Exchange Act of 1934**

Date of Report (Date of earliest event reported) August 8, 2012

GTx, Inc.

(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction
of incorporation or organization)

000-50549
(Commission
File Number)

62-1715807
(I.R.S. Employer
Identification No.)

**175 Toyota Plaza
7th Floor**

Memphis, Tennessee 38103

(901) 523-9700

(Address, including zip code, and telephone number,
including area code, of registrant's principal executive offices)

(Former name or former address, if changed since last report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (see General Instruction A.2. below):

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
 - Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
 - Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
 - Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))
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ITEM 2.02 Results of Operations and Financial Condition.

On August 8, 2012, GTx, Inc. issued its financial press release for the second quarter ended June 30, 2012, a copy of which is furnished as Exhibit 99.1 to this Current Report.

This release is furnished by GTx pursuant to Item 2.02 of Form 8-K and is not to be considered "filed" under the Exchange Act, and shall not be incorporated by reference into any previous or future filing by the Registrant under the Securities Act or the Exchange Act.

ITEM 9.01 Financial Statements and Exhibits.

(d) Exhibits

<u>Exhibit Number</u>	<u>Description</u>
99.1	Press Release issued by GTx, Inc. dated August 8, 2012

Contact:
Marc Hanover, President
GTx, Inc.
901-523-9700

GTx PROVIDES CORPORATE UPDATE AND REPORTS SECOND QUARTER 2012 FINANCIAL RESULTS

MEMPHIS, TN. — August 8, 2012 — GTx, Inc. (Nasdaq: GTXI) today provided a Company update and reported financial results for the second quarter of 2012.

“We continue to make progress on our late stage clinical programs. We are enrolling our two pivotal Phase III clinical trials evaluating enobosarm for the prevention and treatment of muscle wasting in non-small cell lung cancer patients,” said Mitchell S. Steiner, MD, CEO of GTx. “We expect to receive topline data from these studies during the second quarter of 2013. In addition, we will begin screening patients this month for our Phase II clinical study of Capesaris® as secondary hormonal therapy in men with metastatic castration resistant prostate cancer.”

Clinical updates

Enobosarm (Ostarine®, GTx-024), an oral selective androgen receptor modulator, for the prevention and treatment of muscle wasting in patients with advanced non-small cell lung cancer: GTx is currently enrolling subjects with advanced non-small cell lung cancer in two pivotal Phase III clinical trials, POWER 1 and POWER 2. These international Phase III studies are being conducted in clinical sites in the United States, Europe, and South America. In each of the placebo-controlled, double-blind clinical trials, 300 patients with Stage III or IV non-small cell lung cancer are being randomized to oral daily doses of placebo or enobosarm 3 mg at the time they begin first line standard chemotherapy. The studies are evaluating as co-primary endpoints at three months of treatment the response rates of enobosarm versus placebo on maintaining or improving total lean body mass (muscle) assessed by dual x-ray absorptiometry and improving physical function assessed by the Stair Climb Test. Durability of the drug effect is being evaluated as a secondary endpoint after five months of treatment. Enrollment for both studies is expected to be completed in the fourth quarter of this year, and topline results should be released during the second quarter of 2013.

Capesaris® (GTx-758), an oral selective estrogen receptor alpha agonist, for secondary hormonal therapy of advanced prostate cancer: GTx is initiating this quarter an open-label clinical study of 75 men with metastatic castration resistant prostate cancer to test three lower doses of Capesaris (125 mg, 250 mg and 500 mg) sequentially in cohorts of 25 patients each. The Phase II 712 clinical trial is designed to assess the effect of Capesaris on serum prostate specific antigen response and prostate cancer progression. The study is expected to provide confirmation of the mechanism of drug action for Capesaris on lowering serum free testosterone levels by increasing serum SHBG in castrated men who failed primary androgen deprivation therapy. The safety and tolerability of lower doses of Capesaris will also be evaluated in these subjects, including the incidence of venous thromboembolic events.

Financial highlights for the quarter ended June 30, 2012

The net loss for the quarter ended June 30, 2012 was \$10.4 million compared to a net loss of \$10.7 million for the same period in 2011.

Revenue for both the second quarter of 2012 and 2011 was \$1.6 million and consisted of net sales of FARESTON® (toremifene citrate) 60 mg, approved for the treatment of metastatic breast cancer in postmenopausal women.

Research and development expenses for the quarter ended June 30, 2012 were \$9.2 million compared to \$7.6 million for the same period in 2011. General and administrative expenses for the quarter ended June 30, 2012 were \$2.6 million compared to \$4.5 million for the same period in 2011.

At June 30, 2012, GTx had cash and short-term investments of \$55.9 million.

Conference call

There will be a conference call today at 9:00 a.m. Eastern Time. To listen to the conference call, please dial 866-356-4281 from the United States or Canada or 617-597-5395 from other international locations. The access code for the call is 90153804. A playback of the call will be available from approximately 11:00 a.m. Eastern Time today through August 22, 2012 and may be accessed by dialing 888-286-8010 from the United States or Canada or 617-801-6888 from other international locations and referencing reservation number 54291257. Additionally, you may access the live and subsequently archived webcast of the conference call from the Investor Relations section of the Company's website at <http://www.gtxinc.com>.

About GTx

GTx, Inc., headquartered in Memphis, Tenn., is a biopharmaceutical company dedicated to the discovery, development, and commercialization of small molecules for the treatment of cancer, cancer supportive care, and other serious medical conditions.

Forward-Looking Information is Subject to Risk and Uncertainty

This press release contains forward-looking statements based upon GTx's current expectations. Forward-looking statements involve risks and uncertainties, and include, but are not limited to, statements relating to GTx's clinical trials for enobosarm (also known as Ostarine® or GTx-024) and its planned clinical trial of Capesaris® (GTx-758). GTx's actual results and the timing of events could differ materially from those anticipated in such forward-looking statements as a result of these risks and uncertainties, which include, without limitation, the risks (i) that GTx will not be able to commercialize its product candidates if clinical trials do not demonstrate safety and efficacy in humans; (ii) that GTx may not be able to obtain required regulatory approvals to commercialize its product candidates in a timely manner or at all; (iii) that clinical trials being conducted by GTx may not be completed on schedule, or at all, or may otherwise be suspended or terminated; or (iv) that GTx could utilize its available cash resources sooner than it currently expects and may be unable to raise capital when needed, which would force GTx to delay, reduce or eliminate its product candidate development programs or commercialization efforts. You should not place undue reliance on these forward-looking statements, which apply only as of the date of this press release. GTx's quarterly report on Form 10-Q filed with the Securities and Exchange Commission on May 10, 2012 contains under the heading, "Risk Factors", a more comprehensive description of these and other risks to which GTx is subject. GTx expressly disclaims any obligation or undertaking to release publicly any updates or revisions to any forward-looking statements contained herein to reflect any change in its expectations with regard thereto or any change in events, conditions or circumstances on which any such statements are based.

GTx, Inc.
Condensed Balance Sheets
(in thousands, except share data)

	<u>June 30,</u> <u>2012</u>	<u>December 31,</u> <u>2011</u>
	<u>(unaudited)</u>	
ASSETS		
Current assets:		
Cash and cash equivalents	\$ 47,319	\$ 63,745
Short-term investments	8,610	10,695
Accounts receivable, net	908	981
Inventory	105	161
Prepaid expenses and other current assets	<u>1,223</u>	<u>1,266</u>
Total current assets	58,165	76,848
Property and equipment, net	779	1,096
Intangible and other assets, net	<u>201</u>	<u>240</u>
Total assets	<u>\$ 59,145</u>	<u>\$ 78,184</u>
LIABILITIES AND STOCKHOLDERS' EQUITY		
Current liabilities:		
Accounts payable	\$ 1,462	\$ 1,219
Accrued expenses and other current liabilities	<u>5,732</u>	<u>4,857</u>
Total current liabilities	7,194	6,076
Other long-term liabilities	262	234
Commitments and contingencies		
Stockholders' equity:		
Common stock, \$0.001 par value: 120,000,000 shares authorized at both June 30, 2012 and December 31, 2011; 62,809,673 and 62,790,223 shares issued and outstanding at June 30, 2012 and December 31, 2011, respectively	63	63
Additional paid-in capital	459,261	457,985
Accumulated deficit	<u>(407,635)</u>	<u>(386,174)</u>
Total stockholders' equity	51,689	71,874
Total liabilities and stockholders' equity	<u>\$ 59,145</u>	<u>\$ 78,184</u>

GTx, Inc.
Condensed Statements of Operations
(in thousands, except share and per share data)
(unaudited)

	Three Months Ended June 30,		Six Months Ended June 30,	
	2012	2011	2012	2011
Revenues:				
Product sales, net	\$ 1,639	\$ 1,645	\$ 3,468	\$ 2,874
Collaboration revenue	—	—	—	8,066
Total revenues	1,639	1,645	3,468	10,940
Costs and expenses:				
Cost of product sales	245	264	519	469
Research and development expenses	9,237	7,591	19,072	14,894
General and administrative expenses	2,591	4,470	5,399	9,154
Total costs and expenses	12,073	12,325	24,990	24,517
Loss from operations	(10,434)	(10,680)	(21,522)	(13,577)
Other income, net	53	7	61	309
Net loss	\$ (10,381)	\$ (10,673)	\$ (21,461)	\$ (13,268)
Net loss per share:				
Basic and diluted	\$ (0.17)	\$ (0.21)	\$ (0.34)	\$ (0.26)
Weighted average shares used in computing net loss per share:				
Basic and diluted	62,805,662	51,968,667	62,801,835	51,844,616