OMB APPROVAL

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UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

SCHEDULE 13G/A

Under the Securities Exchange Act of 1934 (Amendment No. 2)*

GTx, Inc.

(Name of Issuer)

Common Stock, \$0.001par value

(Title of Class of Securities)

40052B108

(CUSIP Number)

December 31, 2006

(Date of Event Which Requires Filing of this Statement)

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

o Rule 13d-1(b)

o Rule 13d-1(c)

☑ Rule 13d-1(d)

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).

Page 1 of 5 Pages

^{*} 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.

Page

 \Box 0

of 5 Pages

1	NAMES OF REPORTING PERSONS: Mitchell S. Steiner, M.D., F.A.C.S.						
	I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY):						
_	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS):						
2	(a) o (b) o						
3	SEC USE ONLY:						
4	CITIZENSHIP OR PLACE OF ORGANIZATION:						
4	United States of America						
		5	SOLE VOTING POWER:				
NUMI	BER OF	<u> </u>	4,501,763				
SHARES BENEFICIALLY OWNED BY EACH		6	SHARED VOTING POWER:				
			533,884				
		ı	SOLE DISPOSITIVE POWER:				
REPORTING PERSON		7	4,501,763				
WITH: SHARED DISPOSITIVE POWER:			SHARED DISPOSITIVE POWER:				
		8	533,884				
	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON:						
9	5,035,64	! 7					
	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS):						
10							
4.4	PERCE	ERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9):					
11	11 14.5%						
		F REP	ORTING PERSON (SEE INSTRUCTIONS):				
12	$\frac{2}{1}$						
(1) Shar		oy Dr. :	Steiner's spouse, as to which Dr. Steiner disclaims beneficial interest				

CUSIP No.	40052B108		13G/A		Page	3	of L	5 Pages	
Item 1(a).	Name of Issuer:			GTx,	Inc.				
Item 1(b).	Address of Issuer's			3 N. l	Dunlap Street				
	Principal Executive	Offices:		Van V	√leet Building				
				Mem	phis, TN 38163				
Item 2(a).	Name of Person Fil	<u>ing</u> :		Mitch	nell S. Steiner, M.D., F	A.C.S.			
Item 2(b).	Address of Principa	Address of Principal			3 N. Dunlap Street				
	Business Office or,	<u>if none, Residence</u> :		Mem	phis, TN 38163				
Item 2(c).	Organization/Citize	<u>nship</u> :		Unite	United States of America				
Item 2(d).	<u>Title of Class Of Se</u>	<u>Title of Class Of Securities</u> :			Common Stock, \$0.001 par value				
Item 2(e).	CUSIP Number:			40052	2B108				
Item 3.	<u>Inapplicable</u> .								
Item 4.	Ownership.								
		Total Shares							
		Common Stock	Percent	Sole	Shared	Sole		Shared	
		Stock Beneficially	of	Voting	Voting	Power to		Power to	
Person Owned		Class(1)	Power	Power	Dispose		Dispose		
Mitchell S. Steiner, M.D., F.A.C.S. 5,035,6		5,035,647	14.5 %	4,501,763	533,884	4,501,763		533,884	

⁽¹⁾ Based on **34,822,362** shares of Common Stock outstanding as of December 31, 2006.

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Item 5. Ownership of Five Percent or Less of a Class.

Inapplicable

Item 6. Ownership of More than Five Percent on Behalf of Another Person.

Inapplicable

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company.

Inapplicable

Item 8. Identification and Classification of Members of the Group.

Inapplicable

Item 9. Notice of Dissolution of Group.

Inapplicable

Item 10. Certification.

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above 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.

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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.

2/14/2007

Date

/s/ Mitchell S. Steiner, M.D., F.A.C.S.

(Signature)

Mitchell S. Steiner, M.D., F.A.C.S.

Chief Executive Officer and Vice Chairman of the Board of Directors of GTx, Inc.