

OWNED BY
EACH
REPORTING
PERSON
WITH

7 SOLE DISPOSITIVE POWER
7,400

8 SHARED DISPOSITIVE POWER
2,420,500

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

2,427,900

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*

N/A

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

9.8%

12 TYPE OF REPORTING PERSON*

IN

*SEE INSTRUCTION BEFORE FILLING OUT!

1 NAME OF REPORTING PERSON
S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON

Oracle Investment Management, Inc.

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*

(a) []

(b) [X]

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

5 SOLE VOTING POWER

0

NUMBER OF
SHARES
BENEFICIALLY
OWNED BY
EACH
REPORTING
PERSON
WITH

6 SHARED VOTING POWER

1,814,297

7 SOLE DISPOSITIVE POWER

0

8 SHARED DISPOSITIVE POWER

1,814,297

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

1,814,297

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*

N/A

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

7.4%

12 TYPE OF REPORTING PERSON*

CO

*SEE INSTRUCTION BEFORE FILLING OUT!

Item 1(a): Name of Issuer:

The name of the issuer is GTX, Inc., a Delaware corporation (the "Company").

Item 1(b): Address of Issuer's Principal Executive Offices:

The Company's principal executive office is located at 3 N. Dunlap Street, 3rd Floor, Van Vleet Building, Memphis, TN 38163.

Item 2(a): Name of Person Filing:

This Schedule 13G is filed by: (i) Mr. Larry N. Feinberg ("Mr. Feinberg"), who serves as the senior managing member of Oracle Associates, LLC, a Delaware limited liability company ("Oracle Associates"), and is the sole shareholder and president of Oracle Investment Management, Inc., a Delaware corporation (the "Investment Manager"); and (ii) the Investment Manager. Oracle Associates serves as the general partner of Oracle Partners, L.P., a Delaware limited partnership ("Oracle Partners"), and Oracle Institutional Partners, L.P., a Delaware limited partnership ("Oracle Institutional"). Mr. Feinberg directly owns certain shares of Common Stock (as defined in Item 2(d) below) and may be deemed to indirectly beneficially own shares of Common Stock, by virtue of the foregoing relationships, directly owned by Oracle Partners, Oracle Institutional and the Investment Manager. Mr. Feinberg and the Investment Manager may be referred to herein as the "Reporting Persons."

Item 2(b): Address of Principal Business Office or, if None,

Residence:

The address of the principal business office of each of the Reporting Persons is 200 Greenwich Avenue, 3rd Floor, Greenwich, CT 06830.

Item 2(c): Citizenship:

Mr. Feinberg is a citizen of the United States of America. The Investment Manager is organized under the laws of the State of Delaware.

Item 2(d): Title of Class of Securities:

Common Stock, \$0.001 par value ("Common Stock").

Item 2(e): CUSIP Number:

40052B108

Item 3: If this statement is filed pursuant to

Rules 13d-1(b) or 13d-2(b) or (c), check

whether the person filing is a:

- (a) Broker or dealer registered under Section 15 of the Act,
- (b) Bank as defined in Section 3(a)(6) of the Act,
- (c) Insurance Company as defined in Section 3(a)(19) of the Act,
- (d) Investment Company registered under Section 8 of the Investment Company Act of 1940,
- (e) Investment Adviser in accordance with Rule 13d-1(b)(1)(ii)(E),
- (f) Employee Benefit Plan or Endowment Fund in accordance with 13d-1(b)(1)(ii)(F),
- (g) Parent Holding Company or control person in accordance with Rule 13d-1 (b)(1)(ii)(G),
- (h) Savings Association as defined in Section 3(b) of the Federal Deposit Insurance Act,
- (i) Church Plan that is excluded from the definition of an investment company under Section 3(c)(14) of the Investment Company Act of 1940,
- (j) Group, in accordance with Rule 13d-1(b)(1)(ii)(J).

Item 4: Ownership:

The percentages used herein and in the rest of this Schedule 13G are calculated based upon the 24,658,340 shares of Common Stock issued and outstanding as of November 12, 2004 as reported in the Company's Report on Form 10-Q for the quarterly period ended September 30, 2004. The beneficial ownership of each of the Reporting Persons is set forth below.

A. Larry N. Feinberg

- (a) Amount beneficially owned: 2,427,900
- (b) Percent of class: 9.8%.
- (c) Number of shares as to which such person has:
 - (i) Sole power to vote or direct the vote: 7,400
 - (ii) Shared power to vote or direct the vote: 2,420,500
 - (iii) Sole power to dispose or direct the disposition: 7,400
 - (iv) Shared power to dispose or direct the disposition: 2,420,500

B. The Investment Manager

- (a) Amount beneficially owned: 1,814,297
- (b) Percent of class: 7.4%.
- (c) Number of shares as to which such person has:
 - (i) Sole power to vote or direct the vote: 0
 - (ii) Shared power to vote or direct the vote: 1,814,297
 - (iii) Sole power to dispose or direct the disposition: 0
 - (iv) Shared power to dispose or direct the disposition: 1,814,297

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

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following: [].

Item 6: Ownership of More than Five Percent on Behalf of Another

Person:

Other than as set forth herein, no other person has the right to receive or the power to direct the receipt of dividends from, or proceeds from the sale of, in excess of 5% of the total outstanding Common Stock.

Item 7: Identification and Classification of the Subsidiary Which

Acquired the Security Being Reported on by the Parent

Holding Company:

Not applicable.

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

Not applicable.

Item 9: Notice of Dissolution of Group:

Not applicable.

Item 10: Certification:

The Reporting Person hereby makes the following 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.

[THE REMAINDER OF THIS PAGE LEFT INTENTIONALLY BLANK]

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.

DATED: February 9, 2005

/s/ Larry N. Feinberg

Larry N. Feinberg

ORACLE INVESTMENT MANAGEMENT, INC.

By: /s/ Larry N. Feinberg

Name: Larry N. Feinberg
Title: President

[SIGNATURE PAGE TO SCHEDULE 13G
WITH RESPECT TO
GTX, INC.]

EXHIBIT INDEX

Exhibit 99.1: Joint Filing Agreement, dated February 9, 2005, by and
between Larry N. Feinberg and Oracle Investment Management, Inc.

JOINT FILING AGREEMENT
PURSUANT TO RULE 13d-1(k)(1)

The undersigned acknowledge and agree that the foregoing statement on Schedule 13G is filed on behalf of each of the undersigned and that all subsequent amendments to this statement on Schedule 13G shall be filed on behalf of each of the undersigned without the necessity of filing additional joint filing agreements. The undersigned acknowledge that each shall be responsible for the timely filing of such amendments, and for the completeness and accuracy of the information concerning it contained therein, but shall not be responsible for the completeness and accuracy of the information concerning the others, except to the extent that it knows or has reason to believe that such information is inaccurate. This Agreement may be executed in any number of counterparts and all of such counterparts taken together shall constitute one and the same instrument.

Dated: February 9, 2005

/s/ Larry N. Feinberg

Larry N. Feinberg

ORACLE INVESTMENT MANAGEMENT, INC.

By: /s/ Larry N. Feinberg

Name: Larry N. Feinberg
Title: President