

XCYTE THERAPIES INC

Form 3

January 10, 2006

FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

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INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934,
Section 17(a) of the Public Utility Holding Company Act of 1935 or Section
30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person *

Â MARXE AUSTIN W &
GREENHOUSE DAVID M

(Last) (First) (Middle)

C/O SPECIAL SITUATIONS
FUNDS,Â 527 MADISON
AVENUE, SUITE 2600

(Street)

NEW YORK,Â NYÂ 10022

(City) (State) (Zip)

2. Date of Event Requiring Statement

(Month/Day/Year)
12/31/2005

3. Issuer Name **and** Ticker or Trading Symbol
XCYTE THERAPIES INC [XYCT]

4. Relationship of Reporting Person(s) to Issuer

5. If Amendment, Date Original Filed(Month/Day/Year)

(Check all applicable)

____ Director ____X__ 10% Owner
____ Officer ____ Other
(give title below) (specify below)

6. Individual or Joint/Group Filing(Check Applicable Line)
X Form filed by One Reporting Person
____ Form filed by More than One Reporting Person

Table I - Non-Derivative Securities Beneficially Owned1. 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)

Common Stock

4,265,588 ⁽¹⁾I ⁽¹⁾By Limited Partnerships ⁽¹⁾

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

SEC 1473 (7-02)

Persons who 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.

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

4. Conversion or Exercise

5. Ownership Form of

6. Nature of Indirect Beneficial Ownership
(Instr. 5)

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Date Exercisable	Expiration Date	Title	Amount or Number of Shares	Price of Derivative Security	Derivative Security: Direct (D) or Indirect (I) (Instr. 5)

Reporting Owners

Reporting Owner Name / Address

Relationships

Director 10% Owner Officer Other

MARXE AUSTIN W & GREENHOUSE DAVID M
C/O SPECIAL SITUATIONS FUNDS
527 MADISON AVENUE, SUITE 2600
NEW YORK, NY 10022

^ ^ X ^ ^

Signatures

Austin W.
Marxe 01/10/2006

__Signature of Date
Reporting Person

David M.
Greenhouse 01/10/2006

__Signature of Date
Reporting Person

Explanation of Responses:

* 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).

This is a joint filing by Austin W. Marxe (Marxe) and David M. Greenhouse (Greenhouse). They share voting and investment control over all securities owned by Special Situations Fund III QP, L.P. (QP), Special Situations Cayman Fund, L.P. (Cayman) and Special Situations Life Sciences Fund, L.P. (LS), respectively. 2,952,924 shares of Common Stock are held by QP, 857,036 shares of Common Stock are held by Cayman and 455,629 shares of Common Stock are held by LS. The interest of Marxe and Greenhouse in the shares of Common Stock owned by QP, Cayman and LS is limited to the extent of his pecuniary interest.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *See* Instruction 6 for procedure. Potential 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 number.