FORM 3

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

## INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

OMB APPROVAL							
OMB Number: 3235-0							
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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person*  MARXE AUSTIN W &  GREENHOUSE DAVID M			Date of Event equiring Staten Month/Day/Year 2/31/2005	nent	3. Issuer Name and Ticker or Trading Symbol XCYTE THERAPIES INC [ XYCT ]							
(Last) C/O SPECIAL	(First)	4. Relationship of Reporting Person(s) to (Check all applicable)  TUATIONS FUNDS		10% Own	er	5. If Amendment, Date of Original Filed (Month/Day/Year)						
527 MADISON AVENUE, SUITE 2600					Officer (give title Other (specify below) below)					6. Individual or Joint/Group Filing (Check Applicable Line)  X Form filed by One Reporting Person		
(Street) NEW YORK	NY	10022							71		y More than One	
(City)	(State)	(Zip)										
Table I - Non-Derivative Securities Beneficially Owned												
1. Title of Security (Instr. 4)					2. Amount of Secu Beneficially Owner		3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)		4. Nature of Indirect Beneficial Ownership (Instr. 5)			
Common Stock					4,265,58	8(1)	I <sup>(1)</sup>		By Limited Partnerships <sup>(1)</sup>			
Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)												
Expiration			2. Date Exerc Expiration Day/\ (Month/Day/\	ate	and 3. Title and Amount of Secular Underlying Derivative Secu			4. Convers or Exerc	cise	5. Ownership Form: Direct (D)	6. Nature of Indirect Beneficial Ownership (Instr. 5)	
			Date Exercisable	Expiratio Date	n Title		Amount or Number of Shares	Derivati Security	ve	or Indirect (I) (Instr. 5)		

## **Explanation of Responses:**

1. 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.

Austin W. Marxe 01/10/2006

David M. Greenhouse 01/10/2006

\*\* Signature of Reporting Person Date

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

- \* 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).

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

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 Number.