XCYTE THERAPIES INC Form SC 13G November 10, 2004			
	UNITED STATES SECURITIES AND EXCHANGE Washington, D.C. 20549 SCHEDULE 13G Under the Securities Exc		
	XCYTE Therapies, Inc.		
	(Name of Issuer)		
	Common Stock, .001 Par V	/alue	
	(Title of Class of Securities)		
	98389F309		
	(CUSIP Number)		
	October 29, 2004 (Date of Event which Rec Check the appropriate bo Schedule is filed: Rule 13c	Allen B. Levithan, Esq. Lowenstein Sandler PC 65 Livingston A Roseland, New Jersey (973) 597-2406 whone Number of Person otices and Communications) quires Filing of this Statement) ox to designate the rule pursuar	
	_x Rule 13c		
	person's initial filing of securities, and for a which would alter disclo The information required be deemed to be ?filed? Exchange Act of 1934 (?P	cover page shall be filled out f on this form with respect to the any subsequent amendment contain osures provided in a prior cover d on the remainder of this cover for the purpose of Section 18 cover for the purpose of Section 18 cover act?) or otherwise subject to the but shall be subject to all othe ne Notes).	ne subject class ning information c page. c page shall not of the Securities ne liabilities of
	Cusip No. 98389F309 Pages	13G	Page 2 of 6

Austin W. Marxe and David M. Greenhouse

persons (entities only):

1.Names of Reporting Persons. I.R.S. Identification Nos. of above

Check the Appropriate Box if a Member of a Group (See 2. Instructions): (a) [] Not Applicable (b) ſ 1 SEC Use Only 3. 4. Source of Funds (See Instructions): 00 Check if Disclosure of Legal Proceedings Is Required 5. Pursuant to Items 2(d) or 2(e): Not Applicable 6. Citizenship or Place of Organization: United States Number of 7. Sole Voting Power: 0 Shares Beneficially 8. Shared Voting Power: 2,437,276* Owned by Each Reporting 9. Sole Dispositive Power: 0 Person With 10. Shared Dispositive Power: 2,437,276*____ Aggregate Amount Beneficially Owned by Each Reporting 11. Person: 2,437,276* 12. Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions): Not Applicable Percent of Class Represented by Amount in Row (11): 13. 14.9%* 14. Type of Reporting Person (See Instructions): IA, IN * This is a joint filing by Austin W. Marxe (?Marxe?) and David M. Greenhouse (?Greenhouse?). Marxe and Greenhouse share sole voting and investment power over 241,842 shares of Common Stock and 87,500 shares of Preferred Stock convertible for 372,340 shares of Common Stock owned

by Special Situations Cayman Fund, L.P., and 706,073 shares of Common Stock and 262,500 shares of Preferred Stock convertible for 1,117,021 shares of Common Stock owned by Special Situations Fund III, L.P. See Items 2 and 4 of this Schedule for additional information.*1

Page 3 of 6 Pages

Item 1. Security and Issuer:
(a) XCYTE Therapies, Inc.
(b) 1124 Columbia Street, Suite 130, Seattle, WA 98104

Item 2. (a) Name of Person Filing:

The persons filing this report are Austin W. Marxe (?Marxe?) and David M. Greenhouse (?Greenhouse?), who are the controlling principals of AWM Investment Company, Inc. (?AWM?), the general partner of and investment adviser to Special Situations Cayman Fund, L.P. (?Cayman?). AWM also serves as the general partner of MGP Advisers Limited Partnership (?MGP?), the general partner of and investment adviser to Special Situations Fund III, L.P. (?SSF3?). (SSF3 and Cayman

will hereafter be referred to as, the ?Funds?). The principal business of each Fund is to invest in equity and equity-related securities and other securities of any kind or nature.

(b) Address of Principal Business Office or, if none, Residence:

The principal business address for Marxe and Greenhouse is 153 East 53rd Street, 55th floor, New York, NY 10022.

(c) Citizenship:

 $\label{eq:main_aux_stin_w} \mbox{Austin W. Marxe and David M. Greenhouse are United States citizens.}$

(d) Title of Class of Securities: Common Stock.(e) CUSIP Number: 98389F309.

Item 3. If this statement is filed pursuant to \$240.13d-1(b) or 240.13d-2(b), check whether the person filing is a: Not Applicable

Page 4 of 6 Pages

(g) () A parent holding company or control person in accordance with \$240.13d- 1(b)(1)(ii)(G); (h) () A savings association as defined in Section 3(b) of the Federal Deposit Insurance

Act; (i) () A 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 \$240.13d-1(b)(1)(ii)(J).

Item 4. Ownership:

(a) Amount Beneficially Owned: Messrs. Marxe and Greenhouse beneficially own a total of 947,915 shares of Common Stock and 350,000 Preferred Shares convertible for 1,489,361 Common Shares. This amount includes 241,842 shares of Common Stock and 87,500 Preferred Shares convertible for 372,340 shares of Common Stock owned by Cayman and 706,073 shares of Common Stock and 262,500 Preferred Shares convertible for 1,117,021 shares of Common Stock owned by SSF3.*1

(b) Percent of Class: Messrs. Marxe and Greenhouse beneficially own 14.9% of the shares outstanding. Cayman owns 4.0% of the

outstanding shares and SSF3 owns 11.4% of the outstanding shares.

(c) Number of Shares as to which the person has:

- (i) Sole power to vote or to direct the vote: 0
- (ii) Shared power to vote or to direct the vote: 2,437,276
- (iii) Sole power to dispose or to direct the disposition of:

0

(iv) Shared power to dispose or to direct the disposition of: 2,437,276

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 that five percent of the class of securities, check the following ___.

Item 6.Ownership of More than Five Percent on Behalf of Another Person: Not Applicable.

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

Page 5 of 6 Pages

Item 9. Notices of Dissolution of Group: Not applicable.

Item 10.Certification:

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and 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.

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: November 9, 2004

/s/ Austin W. Marxe AUSTIN W. MARXE

/s/David M Greenhouse DAVID M. GREENHOUSE

Attention: Intentional misstatements or omissions of fact constitute Federal criminal violations (See 18 U.S.C. 1001).

*1 Subsequent to the October 29, 2004 public offering to purchase 6% Convertible Exchangeable Preferred Stock, the ?Funds? elected to convert the Preferred Stock to its Common Stock equivalent. In addition the ?Funds? received Common Shares as a result of a make whole dividend payment.

Page 6 of 6 Pages

JOINT FILING AGREEMENT

Austin W. Marxe and David M. Greenhouse hereby agree that the Schedule 13G to which this agreement is attached is filed on behalf of each of them.

/s/_Austin W. Marxe Austin W. Marxe

/s/_David M. Greenhouse David M. Greenhouse -6-

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