AEHR TEST SYSTEMS Form S-8 October 08, 2004

> As filed with the Securities and Exchange Commission on October 8, 2004 Registration No. 333-

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

FORM S-8 REGISTRATION STATEMENT UNDER THE SECURITIES ACT OF 1933

AEHR TEST SYSTEMS (Exact name of Registrant as specified in its charter)

94-2424084 California

______ (State or other jurisdiction of incorporation or organization)

______ (I.R.S. Employer Identification Number)

400 Kato Terrace Fremont, California 94539

(Address, including zip code, of Registrant's principal executive offices)

1996 STOCK OPTION PLAN 1997 EMPLOYEE STOCK PURCHASE PLAN

(Full title of the plan)

Aehr Test Systems 400 Kato Terrace Fremont, California 94539 (510) 623-9400 (Name, address, and telephone number, including area code, of agent for service)

Copies to:

Mark Reinstra, Esq. Wilson Sonsini Goodrich & Rosati Professional Corporation 650 Page Mill Road Palo Alto, CA 94304-1050 (650) 493-9300

CALCULATION OF REGISTRATION FEE

Title of Securities to be Registered

Proposed Maximum Proposed Maximum
Amount to be Offering Price Aggregate Offering
Registered Per Share Price

F

Common Stock, \$.01 par value to be issued under the 1996 Stock Option Plan	700,000	(1)	\$2.72	\$1	.,904,000	(3)
Common Stock, \$.01 par value to be issued under the 1997 Employee Stock Purchase Plan	100,000	(2)	\$2.31	\$	231,200	(3)

Total Registration Fee

- (1) The 700,000 shares reflect an increase to the already existing 1996 Stock Option Plan. Such additional 700,000 shares are covered by this Registration Statement.
- (2) The 100,000 shares reflect an increase to the already existing 1997 Employee Stock Purchase Plan. Such additional 100,000 shares are covered by this Registration Statement.
- (3) The Proposed Maximum Offering Price has been calculated in accordance with Rule 457(h) under the Securities Act of 1933 solely for the purpose of calculating the Registration Fee. The computation is based upon the average of the high and low price of the Common Stock as reported on the Nasdaq National Market on October 4, 2004 because the price at which the options to be granted in the future is not currently determinable.

PART II

INFORMATION REQUIRED IN THE REGISTRATION STATEMENT

Item 3. INFORMATION INCORPORATED BY REFERENCE:

Pursuant to General Instruction E of Form S-8, there are hereby incorporated by reference into this Registration Statement, the Registration Statement on Form S-8 previously filed by the Registrant with the Securities and Exchange Commission ("SEC"), SEC File No. 333-52592, filed in connection with an increase in the shares of the Registrant's Common Stock to the Registrant's existing 1996 Stock Option Plan and 1997 Employee Stock Purchase Plan, and the Registration Statement on Form S-8 previously filed by the Registrant with the Securities and Exchange Commission ("SEC"), SEC File No. 333-40577, filed in connection with the shares under the 1986 Incentive Stock Plan, the 1996 Stock Option Plan, and the 1997 Employee Stock Purchase Plan. This Registration Statement registers additional shares of the Registrant's Common Stock to be issued pursuant to the 1996 Stock Option Plan and 1997 Employee Stock Purchase Plan, and the following subsequent periodic reports and information contained therein are hereby incorporated by reference into this Registration Statement:

- (a) The Registrant's Annual Report on Form 10-K for the fiscal year ended May 31, 2004, as filed pursuant to Section 13(a) of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), on August 30, 2004.
- (b) Proxy Statement filed September 27, 2004 in connection with the Annual Meeting of Shareholders to be held October 19, 2004.

All documents filed by the Registrant pursuant to Sections 13(a), 13(c), 14 and 15(d) of the Exchange Act on or after the date of this Registration Statement and prior to the filing of a post-effective amendment which indicates that all securities offered have been sold or which registers all securities then remaining unsold, shall be deemed to be incorporated by reference in this Registration Statement and to be part hereof from the date of filing of such documents.

Item 8. Exhibits

Exhibit Number	Document
5.1	Opinion of Wilson Sonsini Goodrich & Rosati, Professional Corporation, as to the legally of securities being registered.
23.1	Consent of PricewaterhouseCoopers LLP, Independent Accountants
23.2	Consent of Wilson Sonsini Goodrich & Rosati, Professional Corporation (contained in Exhibit 5.1 hereto)
24.1	Power of Attorney (see page II-3).

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the Registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-8 and has duly caused this Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Fremont, State of California, on October 8, 2004.

Aehr Test Systems

By: /S/ RHEA J. POSEDEL

Rhea J. Posedel, Chief Executive Officer and Chairman of the Board of Directors

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POWER OF ATTORNEY

KNOW ALL PERSONS BY THESE PRESENTS, that each person whose signature appears below constitutes and appoints Rhea J. Posedel and Gary L. Larson, jointly and severally, as his or her attorney-in-fact, each with the power of

substitution, for him or her in any and all capacities, to sign any amendments to this Registration Statement on Form S-8, and to file the same, with exhibits thereto and other documents in connection therewith, with the Securities and Exchange Commission, hereby ratifying and confirming all that the said attorneys-in-fact, or his or her substitute or substitutes, may do or cause to be done by virtue hereof

Pursuant to the requirements of the Securities Act of 1933, this Registration Statement has been signed by the following persons in the capacities and on the date indicated.

SIGNATURE	TITLE	DATE		
	Chief Executive Officer and Chairman of the Board (Principal Executive Officer)	October 8,	2004	
	Vice President of Finance and Chief Financial Officer (Principal Financial and Accounting Officer)	October 8,	2004	
/S/ WILLIAM W.R. ELDER	Director	October 8,	2004	
William W.R. Elder				
/S/ MARIO M. ROSATI	Director	October 8,	2004	
Mario M. Rosati				
/S/ MUKESH PATEL	Director	October 8,	2004	
Mukesh Patel				

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SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

EXHIBITS

Registration Statement on Form S-8

Aehr Test Systems

INDEX TO EXHIBITS

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