KLA TENCOR CORP

Check this box

if no longer

subject to

Section 16.

Form 4

November 04, 2005

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

Form 4 or Form 5 obligations may continue. See Instruction

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

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * SCHROEDER KENNETH L

2. Issuer Name and Ticker or Trading Symbol

KLA TENCOR CORP [KLAC]

5. Relationship of Reporting Person(s) to

Issuer

below)

(Last) (First) (Middle)

(Street)

3. Date of Earliest Transaction

_X__ Director 10% Owner X_ Officer (give title Other (specify

(Check all applicable)

C/O KLA-TENCOR CORPORATION, 160 RIO **ROBLES**

4. If Amendment, Date Original

Chief Executive Officer

Filed(Month/Day/Year)

(Month/Day/Year)

11/04/2005

6. Individual or Joint/Group Filing(Check Applicable Line)

X Form filed by One Reporting Person Form filed by More than One Reporting

Person

4. Securities Acquired (A) 5. Amount of

SAN JOSE, CA 95130

(City)

1. Title of Security

(State) (Zip)

2. Transaction Date 2A. Deemed

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

(Instr. 3)	(Month/Day/Year)	Execution Date, if	Transacti	omr Dienoe	ed of (Securities	Ownership		
(IIIsu. 3)	(Wionin/Day/Tear)	any	Code	1			Beneficially	Form:	
		(Month/Day/Year)	(Instr. 8)	(msure, rande)			Owned	Direct (D)	
		•					Following	or Indirect	
					(4)		Reported	(I)	
					(A)		Transaction(s)	(Instr. 4)	
			Code V	Amount	or (D)	Price	(Instr. 3 and 4)		
Common Stock	11/04/2005		M	50,000	A	\$ 16.97	212,658	D	
Common Stock	11/04/2005		S	50,000	D	\$	162,658	D	

3.

Common

Stock-Restricted Stock Units (1)

100,000

D

SEC 1474

(9-02)

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

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49.5026

7. Nature of Indirect Beneficial Ownership (Instr. 4)

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displays a currently valid OMB control number.

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transactic Code (Instr. 8)	Secur Secur Acqu or Di (D)	rities nired (A) sposed of r. 3, 4,	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amou Underlying Secur (Instr. 3 and 4)	
				Code V	(A)	(D)	Date Exercisable	Expiration Date	Title	Am Nui Sha
Non-Qualified Stock Option (right to buy)	\$ 16.97	11/04/2005		M		50,000	10/23/1999	10/23/2008	Common Stock	50
Non-Qualified Stock Option (right to buy)	\$ 26.25						11/10/2001	11/10/2010	Common Stock	31
Non-Qualified Stock Option (right to buy)	\$ 29.31						10/02/2002	10/02/2011	Common Stock	34
Non-Qualified Stock Option (right to buy)	\$ 32.75						04/04/2002	04/04/2011	Common Stock	31
Non-Qualified Stock Option (right to buy)	\$ 33.75						10/27/2000	10/27/2009	Common Stock	15
Non-Qualified Stock Option (right to buy)	\$ 34.67						11/08/2003	01/28/2013	Common Stock	62
Non-Qualified Stock Option (right to buy)	\$ 37.05						11/08/2003	11/08/2012	Common Stock	31
Non-Qualified Stock Option (right to buy)	\$ 40.66						10/27/2006	08/02/2014	Common Stock	22
Non-Qualified Stock Option (right to buy)	\$ 41.79						09/21/2005	09/21/2014	Common Stock	32
Non-Qualified Stock Option (right to buy)	\$ 44.6875						08/13/2000	08/13/2010	Common Stock	75

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Non-Qualified Stock Option (right to buy)	\$ 45.16	10/27/2004	04/26/2014	Common Stock	31
Non-Qualified Stock Option (right to buy)	\$ 47.95	09/26/2006	09/26/2012	Common Stock	25
Non-Qualified Stock Option (right to buy)	\$ 47.95	09/26/2009	09/26/2015	Common Stock	75
Non-Qualified Stock Option (right to buy)	\$ 51.229	11/08/2003	07/30/2013	Common Stock	31
Non-Qualified Stock Option (right to buy)	\$ 53.86	10/27/2004	10/27/2013	Common Stock	60
Non-Qualified Stock Option (right to buy)	\$ 58.1	10/27/2006	01/27/2014	Common Stock	30

Reporting Owners

Reporting Owner Name / Address	Relationships						
•	Director	10% Owner	Officer	Other			
SCHROEDER KENNETH L C/O KLA-TENCOR CORPORATION 160 RIO ROBLES SAN JOSE, CA 95130	X		Chief Executive Officer				

Signatures

By: Stuart J. Nichols For: Kenneth L.
Schroeder

**Signature of Reporting Person

Date

Explanation of Responses:

- * If the form is filed by more than one reporting person, see Instruction 4(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).
- (1) Each restricted stock unit represents a contingent right to receive one share of KLAC common stock.

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.

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