FORM	4
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Check this box if no
longer subject to
Section 16. Form 4 or
Form 5 obligations
may continue. See
Instruction 1(b).

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

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)										
1. Name and Address of Reporting Person – SCHROEDER KENNETH L	2. Issuer Name an KLA TENCOR			~ .	1	:	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner			
(Last) (First) C/O KLA-TENCOR CORPORATI ROBLES	3. Date of Earliest Transaction (Month/Day/Year) 11/04/2005						Officer (give title below) Other (specify below) Chief Executive Officer			
(Street) SAN JOSE, CA 95130	4. If Amendment, D	ate Original	Filed	d(Month/Day	/Year)	6. Individual or Joint/Group Filing(Check Applicable Line) _X_Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City) (State)	(Zip)	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned								
1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	(Instr. 8)	ion	or Dispos	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I)	Beneficial Ownership
Common Stock	11/04/2005		Code M	V	Amount 50,000	(D) A	Price \$ 16.97	212,658	(Instr. 4) D	
Common Stock	11/04/2005		S		50,000	D	\$ 49.5026	162,658	D	
Common Stock-Restricted Stock Units (1)								100,000	D	

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

SEC 1474 (9-02)

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Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned

	(e.g., puts, calls, warrants, options, convertible securities)										-						
Security	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)		Code	tion)	of E Sec Acq or E of (Derivative urities urities urities (A) Disposed D) tr. 3, 4,	6. Date Exercisable and Expiration Date (Month/Day/Year)		Expiration Date of Underlyin Month/Day/Year) Securities		e of Underlying			Owned Following Reported Transaction(s)	Ownership Form of Derivative Security: Direct (D) or Indirect (I)	Beneficial
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		(Instr. 4)	(Instr. 4)			
Non- Qualified Stock Option (right to buy)	\$ 16.97	11/04/2005		М			50,000	10/23/1999	10/23/2008	Common Stock	50,000	\$ 49.5026	106,032	D			
Non- Qualified Stock Option (right to buy)	\$ 26.25							11/10/2001	11/10/2010	Common Stock	37,900		37,900	D			
Non- Qualified Stock Option (right to buy)	\$ 29.31							10/02/2002	10/02/2011	Common Stock	341,100		341,100	D			
Non- Qualified Stock Option (right to buy)	\$ 32.75							04/04/2002	04/04/2011	Common Stock	37,900		37,900	D			

Non- Qualified Stock Option (right to buy)	\$ 33.75			10/27/2000	10/27/2009	Common Stock	150,000	150,000	D	
Non- Qualified Stock Option (right to buy)	\$ 34.67			11/08/2003	01/28/2013	Common Stock	62,900	62,900	D	
Non- Qualified Stock Option (right to buy)	\$ 37.05			11/08/2003	11/08/2012	Common Stock	31,450	31,450	D	
Non- Qualified Stock Option (right to buy)	\$ 40.66			10/27/2006	08/02/2014	Common Stock	22,500	22,500	D	
Non- Qualified Stock Option (right to buy)	\$ 41.79			09/21/2005	09/21/2014	Common Stock	325,800	325,800	D	
Non- Qualified Stock Option (right to buy)	\$ 44.6875			08/13/2000	08/13/2010	Common Stock	75,800	75,800	D	
Non- Qualified Stock Option (right to buy)	\$ 45.16			10/27/2004	04/26/2014	Common Stock	37,500	37,500	D	
Non- Qualified Stock Option (right to buy)	\$ 47.95			09/26/2006	09/26/2012	Common Stock	250,000	250,000	D	
Non- Qualified Stock Option (right to buy)	\$ 47.95			09/26/2009	09/26/2015	Common Stock	75,800	75,800	D	
Non- Qualified Stock Option (right to buy)	\$ 51.229			11/08/2003	07/30/2013	Common Stock	31,450	31,450	D	
Non- Qualified Stock Option (right to buy)	\$ 53.86			10/27/2004	10/27/2013	Common Stock	60,000	60,000	D	

Non-										
Qualified										
Stock	\$ 58.10			10/27/2006	01/27/2014	Common	30,000	30,000	D	
Option	\$ 50.10			10/2//2000	01/2//2014	Stock	30,000	50,000	D	
(right to										
buy)										

Reporting Owners

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

Signatures

By: Stuart J. Nichols For: Kenneth L. Schroeder	11/04/2005
**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.

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