# FORM 4

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

OMB APPR	ROVAL
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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).

#### 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 and Ticker or Trading Symbol KLA TENCOR CORP [KLAC]						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 7 02/08/2006	Transaction	(Mon	th/Day/Ye	ear)		X Officer (give title below) Other (specify below)  Chief Executive Officer			
(Street) SAN JOSE, CA 95130	4. If Amendment, Γ	ate Origina	l File	d(Month/Day	//Year)		6. Individual or Joint/Group FilingCheck Applicable Line) _X_Form filed by One Reporting Person _Form filed by More than One Reporting Person			
(City) (State)	(Zip)		Table I -	Non-	Derivativ	e Secur	ities Acqui	red, Disposed of, or Beneficially Own	ed	
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)		(Instr. 8)	tion	or Dispo	urities Acquired (A) posed of (D) 3, 4 and 5)		5. Amount of Securities Beneficially Owned Following Reported Transaction(s)	6. Ownership Form:	Beneficial
		(Month/Day/Year)	Code	v	Amount	(A) or (D)	Price	(Instr. 3 and 4)	Direct (D) or Indirect (I) (Instr. 4)	Ownership (Instr. 4)
Common Stock	02/08/2006		S		30,000	D	\$ 53.9155	132,658	D	
Common Stock	02/08/2006		M		56,032	A	\$ 16.97	188,690	D	
Common Stock	02/08/2006		S		56,032	D	\$ 53.9155	132,658	D	
Common Stock-Restricted Stock Units (1)								100,000	D	
Reminder: Report on a separate line for each	n class of securities b	eneficially owned di	rectly or inc	lirectl	y.					
		•		Per	sons who	o respo	ond to the	collection of information contain	ed SEC	1474 (9-02)

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

(e.g., puts, calls, warrants, options, convertible securities)

10. Date Exercisable and 17. Title and Amount 18. Price of 19. Number of 10.

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Derivative Security	2. Conversion or Exercise Price of Derivative Security		3A. Deemed Execution Date, if any (Month/Day/Year)	Code	tion	of E Seco Acq or E of (I	Derivative urities uired (A) Disposed D) tr. 3, 4,	Expiration Date (Month/Day/Year)		of Underlying Securities		8. Price of Derivative Security (Instr. 5)	Derivative Securities Beneficially Owned Following Reported Transaction(s)	Derivative decurities beneficially decurities deneficially deviced decurity:  Direct (D) or Indirect decurity:  Direct (D) (I)	
				Code	v	(A)		Date Exercisable	Expiration Date	Title	Amount or Number of Shares		(Instr. 4)	(Instr. 4)	
Non- Qualified Stock Option (right to buy)	\$ 16.97	02/08/2006		М			56,032	10/23/1999	10/23/2008	Common Stock	56,032	\$ 53.9155	0	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		Common Stock	341,100		341,100	D	

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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 Option (right to buy)	\$ 58.10			10/27/2006	01/27/2014	Common Stock	30,000	30,000	D	

#### **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	X		Chief Executive Officer					

### **Signatures**

By: Stuart J. Nichols For: Kenneth L. Schroeder	02/09/2006
**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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