# FORM 4

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

OMB APPROVAL

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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 I SCHROEDER KEN	2. Issuer Name an KLA TENCOR			~ .	ol	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner					
C/O KLA-TENCOR	3. Date of Earliest 7 08/25/2003	Transaction (	(Mon	th/Day/Ye	ear)	X Officer (give title below) Other (specify below)  Chief Executive Officer					
SAN JOSE, CA 951	(Street)		4. If Amendment, Γ	Date Origina	l File	d(Month/Day	//Year)		6. Individual or Joint/Group Filing(Check X Form filed by One Reporting Person Form filed by More than One Reporting Person		<del>:</del> )
(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	(Instr. 8)	or Disposed of (D)			D)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) 6. Ownershi		Beneficial
	(Month/Day/Year)  Code V Amount (A) or (Instr. 3 and 4)		(Instr. 3 and 4)	Direct (D) or Indirect (I) (Instr. 4)	Ownership (Instr. 4)						
Common Stock		08/22/2003		M		50,000	A	\$ 10.63	261,230	D	
Common Stock		08/22/2003		S		50,000	D	\$ 57.8089	211,230	D	
Reminder: Report on a se	narate line for ea	ch class of securities b	eneficially owned di	rectly or ind	lirectl	v					

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

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Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security		3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transac Code	tion	5. N of E Seco Acq or E of (I	Jumber Derivative curities cuired (A) Disposed D) tr. 3, 4,	Expiration Date (Month/Day/Year)		7. Title and Amount of Underlying Securities			Derivative Securities Beneficially Owned Following Reported Transaction(s)	Ownership Form of Derivative Security: Direct (D) or Indirect	Beneficial
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	or Number of Shares				
Non- Qualified Stock Option (right to buy)	\$ 10.63	08/22/2003		М			50,000	08/31/1999	08/31/2008	Common Stock	50,000	\$ 57.8089	129,272	D	
Non- Qualified Stock Option (right to buy)	\$ 16.97							10/23/1999	10/23/2008	Common Stock	220,728		220,728	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)	\$ 44.6875			08/13/2000	08/13/2010	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	

### **Reporting Owners**

D ( O N /	Relationships								
Reporting Owner Name / Address	Director	10% Owner	Officer	Other					
SCHROEDER KENNETH L C/O KLA-TENCOR CORP. 160 RIO ROBLES SAN JOSE, CA 95134	X		Chief Executive Officer						

#### **Signatures**

By: Stuart J. Nichols For: Kenneth L. Schroeder	08/25/2003
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. 78 ff(a).

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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