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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SEC 1474 (9-02)

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 [*] 2. Issuer Name and Ticker or Trading Symbol SCHROEDER KENNETH L KLA TENCOR CORP [KLAC]						5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner				
(Last) (First) (Middle C/O KLA-TENCOR CORPORATION, 160 ROBLES	DIO J.	3. Date of Earliest Transaction (Month/Day/Year) 04/26/2004						X_Officer (give title below) Other (specify below) Chief Executive Officer		
(Street) SAN JOSE, CA 95130	eeet) 4. If Amendment, Date Original Filed(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 - No	on-De	rivative S	Securitie	s Acqu	ired, Disposed of, or Beneficially Owne	ed	
(Instr. 3) Date	h/Day/Year)	Execution Date, if Code (A) or Disposed of (D) any (Instr. 8) (Instr. 3, 4 and 5)					Owned Following Reported Transaction(s)	Ownership Form:	7. Nature of Indirect Beneficial Ownership	
		(nona, bay) rear)	Code V Amount (A) or (D) Price			· · ·	Price		or Indirect (I) (Instr. 4)	
Common Stock								161,438	D	

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

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

	(e.g., puts, calls, warrants, options, convertible securities)														
Derivative Security	2. Conversion or Exercise Price of Derivative Security	Date (Month/Day/Year)		Code		5. Numbo of Deriva Securities Acquired or Dispos of (D) (Instr. 3, and 5)	tive s (A) sed	Expiration Date (Month/Day/Year)		te of Underlying Year) Securities		Derivative Security (Instr. 5)	Derivative Securities Beneficially 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)	\$ 45.16	04/26/2004		А		18,550		10/27/2004	04/26/2014	Common Stock	18,550	\$ 0	18,550	D	
Non- Qualified Stock Option (right to buy)	\$ 45.16	04/26/2004		A		18,950		10/27/2006	04/26/2014	Common Stock	18,950	\$ O	37,500	D	
Non- Qualified Stock Option (right to buy)	\$ 10.63							08/31/1999	08/31/2008	Common Stock	79,272		79,272	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	
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	
	Director	10% Owner	Officer	Other
Reporting Owner Name / Address				

CHROEDER KENNETH L O KLA-TENCOR CORPORATION NO RIO ROBLES AN JOSE, CA 95130 X Chief Executive Officer
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Signatures

By: Stuart J. Nichols For: Kenneth L. Schroeder	04/27/2004
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).

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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