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

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longer subject to Section 16. Form 4 or Form 5 obligations

\$ 10.63

\$ 16.97

Option

(right to buy) Non-Qualified Stock

Option

(right to buy) Non-Qualified Stock

Option

(right to buy)

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

-	etion 1(b).	•		Í	nve	stment (Com	pany	Act of	1940	1							
1. Name and		Reporting Person*		2. Issu	ıer N	ame and	Tick	er or Ti	rading S	ymbol			5. Rel	lationship		Person(s) to		
SCHROEDER KENNETH L				KLA	ΓΕΝ	NCOR C	COR	P [KL	AC]				(Check all applicable) _X_ Director10% Owner					,
(Last) (First) (Middle) C/O KLA-TENCOR CORPORATION, 160 RIO ROBLES				3. Date of Earliest Transaction (Month/Day/Year) 01/27/2004								X Officer (give title below) Other (specify below) Chief Executive Officer						
CAN IOC	TE CA 051	(Street)		4. If An	nend	ment, Da	te Or	iginal F	Filed(Moi	nth/Day/	Year)		_X_ Fo	orm filed by O	ne Reporting Po	Filing(Check Aperson eporting Person	pplicable Line)
(City	SE, CA 951	(State)	(Zip)				Tabl	o I N	on Dori	watiwa	Sagneitia	s A agui	ired I	Disposad a	f or Donofi	aially Owned		
1.Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Yea			2A. Deemed Execution Date, i any (Month/Day/Yea		ned Date, if	3. Transactio Code (Instr. 8)		ion 4.			quired 5. A Owr Tran		red, Disposed of, or Beneficially Own 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)		eficially 6	6. Ownership Form:	7. Nature of Indirect Beneficial Ownership	
				(WIOII	iiii/D	ay/1car)	C	ode	V A	mount	(A) or (D)	Price	(msu.	3 and 4)	Direct (D) or Indirect (I) (Instr. 4)		or Indirect I)	
Common	Stock												161,2	230		I)	
l mu		la m	1	(e.g., p		Securitic	rran	quired	l, Dispo ons, coi	sed of,	le securi	ficially (Owne	d	lo n : -			1,, ,,
Security or Exercing (Instr. 3) Price of		onversion Date Exercise (Month/Day/Year) Execution Date, i any (Month/Day/Year)			Code Securit		vative (Month/Day/Year) Expiration Date (Month/Day/Year) of Use (Inst.)		of Und Securit	of Underlying Derivative Securities Securities				Ownershi Form of Derivativ Security: Direct (D or Indirect	Ownersh (Instr. 4)			
				Code	V	(A)	(D)	Date Exerc	isable	Expi Date	ration	Title		Amount or Number of Shares		(Instr. 4)	(Instr. 4)	
Non- Qualified Stock Option (right to buy)	\$ 58.10	01/27/2004		A		15,160		10/2	7/2006	5 01/2	27/2014	Comi		15,160	\$ 0	15,160	D	
Non- Qualified Stock Option	\$ 58.10	01/27/2004		A		14,840		10/2	7/2004	01/2	27/2014	Comi		14,840	\$ 0	30,000	D	

129,272

220,728

Stock

Common

Stock

Common

Stock

08/31/1999 08/31/2008

10/23/1999 10/23/2008

129,272

220,728

D

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	

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	01/29/2004

**Signature of Reporting Person	Dat	te	

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.

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.