FORM 4

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

OMB APPROVAL
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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

instruc	tion I(b).			mvest	inchi ec	Jinp	ally 1	101 01 17	70							
(Print or Typ	e Responses)														
1. Name and LEVY KI	d Address of ENNETH	2. Issuer Na KLA TENO				~ .	bol		5. Relationship X Director	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner						
C/O KLA ROBLES	-TENCOR	3. Date of Ear 08/02/2005		sactio	on (Mo	onth/Day/	Year)		X_ Officer (give	X Officer (give title below) Other (specify below) Chairman of the Board						
SAN JOS	E, CA 951	4. If Amendm	nent, Date	Orig	inal Fil	led(Month/E	Day/Year)	_X_ Form filed by	6. Individual or Joint/Group Filing(Check Applicable Line) Form filed by One Reporting Person Form filed by More than One Reporting Person						
(City	7)	(State)	(Zip)		Ta	able	I - Nor	ı-Derivati	ive Sec	curities Ac	quired, Disposed	of, or Benefic	cially Ov	vned		
1.Title of Se (Instr. 3)				2A. Deemed 3. Transac Execution Date, if Code any (Instr. 8)			ction	4. Securi or Dispo (Instr. 3,	sed of		5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)			6. Ownersh Form: Direct (E or Indirec	ip Indire Benef Owne	ficial ership
					Co	ode	V	Amount	(A) or (D)	r Price				(I) (Instr. 4)		, ,
Common	Stock		08/02/2005		N	M		75,000	A	\$ 10.81	76,141			D		
Common	Stock		08/02/2005		5	S		75,000	D	\$ 51.267	5 1,141			D		
Common	Stock		08/02/2005		5	S		75,000	D	\$ 51.267	1,644,375			I	by L Fam.	evy . Trust
Common	Stock										338,000			I	KGN LP	ЛW,
Common	Stock										40,000			I		y Fam. ndation
Reminder: F	Renort on a se	enarate line for eac	h class of securities l	peneficially own	ned directl	lv or	indired	tlv								
		F		,		-5	Pe in	rsons w this forn	n are i	not requi	the collection of red to respond u ntrol number.				SEC 147	74 (9-02)
			Table I	I - Derivative S (e.g., puts, c							ly Owned					
	2. Conversion or Exercise Price of	3. Transaction Date (Month/Day/Year	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code	5. Number	r 6	6. Date Expirat	Exercisal	ole and	7. Tof U	Citle and Amount Underlying urities str. 3 and 4)			ve Oves Fo	vnership	Benefic

Derivative Security (Instr. 3)	Conversion or Exercise Price of Derivative Security	3. Iransaction Date (Month/Day/Year)	Execution Date, if any (Month/Day/Year)	Code		of Derivative		Expiration Date (Month/Day/Year)		of Underlying Securities (Instr. 3 and 4)			Derivative Securities Beneficially Owned Following Reported Transaction(s)	Ownership Form of Derivative Security: Direct (D) or Indirect (I)	Beneficial
				Code	v	(A)		Date Exercisable	Expiration Date	Title	Amount or Number of Shares		(Instr. 4)	(Instr. 4)	
Non- Qualified Stock Option (right to buy)	\$ 10.81	08/02/2005		M			75,000	10/07/1997	10/08/2006	Common Stock	75,000	\$ 51.2675	0	D	
Non- Qualified Stock Option (right to buy)	\$ 10.63							08/31/1999	08/31/2008	Common Stock	204,272		204,272	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	18,951	18,951	D	
Non- Qualified Stock Option (right to buy)	\$ 29.31			10/02/2002	10/02/2011	Common Stock	28,425	28,425	D	
Non- Qualified Stock Option (right to buy)	\$ 32.75			04/04/2002	04/04/2011	Common Stock	18,951	18,951	D	
Non- Qualified Stock Option (right to buy)	\$ 33.75			10/27/2000	10/27/2009	Common Stock	90,000	90,000	D	
Non- Qualified Stock Option (right to buy)	\$ 34.67			11/08/2003	01/28/2013	Common Stock	15,724	15,724	D	
Non- Qualified Stock Option (right to buy)	\$ 37.05			11/08/2003	11/08/2012	Common Stock	7,863	7,863	D	
Non- Qualified Stock Option (right to buy)	\$ 40.66			10/27/2004	08/02/2014	Common Stock	4,500	4,500	D	
Non- Qualified Stock Option (right to buy)	\$ 41.79			09/21/2005	09/21/2014	Common Stock	50,000	50,000	D	
Non- Qualified Stock Option (right to buy)	\$ 44.6875			08/13/2000	08/13/2010	Common Stock	37,901	37,901	D	
Non- Qualified Stock Option (right to buy)	\$ 45.16			10/27/2004	04/26/2014	Common Stock	7,500	7,500	D	
Non- Qualified Stock Option (right to buy)	\$ 51.229			11/08/2003	07/30/2013	Common Stock	7,863	7,863	D	

Non- Qualified Stock Option (right to buy)	\$ 53.86			10/27/2004	10/27/2013	Common Stock	12,000	12,000	D	
Non- Qualified Stock Option (right to buy)	\$ 58.10			10/27/2004	01/27/2014	Common Stock	6,000	6,000	D	

Reporting Owners

		Relationships							
Reporting Owner Name / Address	Director	10% Owner	Officer	Other					
LEVY KENNETH C/O KLA-TENCOR CORPORATION 160 RIO ROBLES SAN JOSE, CA 95130	X		Chairman of the Board						

Signatures

By: Stuart J. Nichols For: Kenneth Levy	08/04/2005
**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).

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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