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).

(Print or Type Responses)

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

(1 tillt of Type Responses)										
1. Name and Address of Reporting LEVY KENNETH	2. Issuer Name a KLA TENCOI				ool		5. Relationship of Reporting Person(s) to Issuer (Check all applicable) _X_ Director 10% Owner X_ Officer (give title below) Other (specify below) Chairman of the Board			
(Last) (First) C/O KLA-TENCOR CORPOROBLES	3. Date of Earliest 05/19/2004	Transaction	ı (Mo	onth/Day/\	ear)					
(Street) SAN JOSE, CA 95130	4. If Amendment,	Date Origin	al Fi	led(Month/D	ay/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)		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)		4. Securities Acquired (or Disposed of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D)	Beneficial
		(Month/Day/Year)	Code	V	Amount	(A) or (D)	Price	(listr. 3 and 4)		Ownership (Instr. 4)
Common Stock	05/19/2004		M		15,000	A	\$ 9.31	39,142	D	
Common Stock	05/19/2004		S		15,000	D	\$ 46.2133	24,142	D	
Common Stock								358,000	I	KGMW, LP
Common Stock								40,000	Ι	Levy Fam. Foundation
Common Stock								1,783,366	Ι	by Levy Fam. Trust
Common Stock								4,000	Ι	by Mark Levy Trust
Common Stock								6,000	Ι	by Wayne Levy Trust
Reminder: Report on a separate line	for each class of securities b	peneficially owned o	directly or in		•	[
				in	this form	are n	ot require	ne collection of information conta ed to respond unless the form dis trol number.		EC 1474 (9-02)
	Table I	I - Derivative Secu (e.g., puts, calls,						v Owned		
										1

1. Title of Derivative 5. Number 6. Date Exercisable and 7. Title and Amount 8. Price of 9. Number of 11. Nature 3. Transaction 3A. Deemed of Underlying Execution Date, if Transaction of Derivative Expiration Date Derivative Derivative Ownership of Indirect Conversion Date or Exercise (Month/Day/Year) Securities Form of Security Code (Month/Day/Year) Securities Security Securities Beneficial (Month/Day/Year) (Instr. 5) Beneficially (Instr. 3) Price of (Instr. 8) Acquired (A) (Instr. 3 and 4) Derivative Ownership Derivative or Disposed Owned Security: (Instr. 4) Security of (D) Following Direct (D) (Instr. 3, 4, Reported or Indirect and 5) Transaction(s) (Instr. 4) (Instr. 4) Amount Date Expiration Title Exercisable Date Number V (A) Code (D) of Shares Non-Qualified Stock Common \$ 9.31 05/19/2004 15,000 07/26/1999 07/26/2004 15,000 40,000 D M 46.2133 Option Stock (right to buy) Non-Qualified Stock \$ 10.63 08/31/1999 08/31/2008 Common 204,272 204,272 D Option Stock (right to buy)

Non-										
Qualified Stock Option (right to buy)	\$ 10.81			10/07/1997	10/08/2006	Common Stock	125,000	125,000	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)	\$ 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	05/19/2004
-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.

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.