FORM 4

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

OMB APPROVAL
OMB Number: 3235-0287
Estimated average burden
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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 Typ	e Responses)																	
1. Name and Address of Reporting Person *- KAUFMAN STEPHEN P				2. Issuer Name and Ticker or Trading Symbol KLA TENCOR CORP [KLAC]							5	 Relat X_ Di 	-		Person(s) to all applicable				
C/O KLA ROBLES	-TENCOF	(First) R CORPORATIO	N, 160 RIO	3. Date 05/03			Frans	saction (Mo	onth/D	ay/Year)		-		ficer (give ti	tle below)		r (specify belo	ow)	
(Street)					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						
SAN JOS	E, CA 951	30										-			re than One Rep				
(City	7)	(State)	(Zip)				T	able I - No	n-Dei	ivative S	Securities .	Acquii	red, Di	sposed of	, or Benefic	ially Owned			
1.Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Ye	Exe ar) any	2A. Deemed Execution Date, if any (Month/Day/Year)		if (3. Transaction Code (Instr. 8)		4. Securities Acquir (A) or Disposed of (Instr. 3, 4 and 5)				curities Beneficially g Reported		Ownership Form: I Direct (D)		neficial nership	
								Code V		Amount (A) or (D) F		Price	ice				or Indirect (I) (Instr. 4)	(Ins	str. 4)
Common	Stock										(=)		1,000				D		
Common (1)	Common Stock-Restricted Stock Units				1,935					D									
Reminder: F	Report on a se	eparate line for each c	lass of securities b	eneficia	lly ov	wned dir	ectly	or indirect	tly.			·							
								th	is for	m are n	ot require	ed to	respoi	nd unles		n contained n displays a		C 1474	4 (9-02)
			Table I	I - Deri	ivativ	ve Secur	ities	Acquired		•	OMB cor			r.					
1. Title of	2.	3. Transaction 3	3A. Deemed				warı	ants, optic	ons, co	nvertibl	e securitie	s)		Amount	9 Price of	9. Number o	of 10.		11. Natur
1. Title of Derivative Security (Instr. 3)	Conversion or Exercise Price of Derivative	Date (Month/Day/Year)	Execution Date, if	Transaction of Code Deriv (Instr. 8) Secur (A) or Dispo of (D) (Instr.		of Derivat Securit Acquir	pate (Month/Darities ired				of Se		7. Title and Amount of Underlying Securities (Instr. 3 and 4)		Derivative Security (Instr. 5)	Derivative Securities Beneficially Owned	Owner Form of Deriva Securit	ship of tive ty:	of Indirect Beneficia Ownershi (Instr. 4)
	Security					(A) or Disposed of (D) (Instr. 3, 4 and 5)										Following Reported Transaction (Instr. 4)	Direct or Indi (I) (Instr.	rect	
				Code	V	(A)	(D)	Date Exercisab	ole	Expira	ation Date	Title		Amount or Number of Shares					
Non-				Code		(11)	(D)	/						Shares					
Qualified Stock Option (right to buy)	\$ 55.88	05/01/2007		A		1,250		05/01/2	007 [©]	04/3	30/2017		nmon ock	1,250	\$ 0	1,250	D		
Non- Qualified Stock Option (right to buy)	\$ 37.05							11/08/	2002	11/0	08/2012		nmon ock	10,000		10,000	D		
Non- Qualified Stock Option (right to buy)	\$ 40.24							05/11/	2005	05/1	11/2015		nmon ock	2,500		2,500	D		
Non- Qualified Stock Option (right to	\$ 40.68							10/18/	2004	10/1	18/2014		nmon ock	2,500		2,500	D		

Non- Qualified Stock Option (right to buy)	\$ 41.45			08/01/2006	08/01/2013	Common Stock	1,250	1,250	D	
Non- Qualified Stock Option (right to buy)	\$ 44.76			01/25/2005	01/25/2015	Common Stock	2,500	2,500	D	
Non- Qualified Stock Option (right to buy)	\$ 47.86			05/02/2006	05/02/2013	Common Stock	1,250	1,250	D	
Non- Qualified Stock Option (right to buy)	\$ 49.99			11/04/2005	11/04/2012	Common Stock	1,250	1,250	D	
Non- Qualified Stock Option (right to buy)	\$ 50.39			02/14/2007	02/14/2014	Common Stock	2,500	2,500	D	
Non- Qualified Stock Option (right to buy)	\$ 51.35			08/02/2005	08/02/2012 ⁽³⁾	Common Stock	2,500	2,500	D	
Non- Qualified Stock Option (right to buy)	\$ 51.98			01/31/2006	01/31/2013	Common Stock	1,250	1,250	D	
Non- Qualified Stock Option (right to buy)	\$ 59.44			11/05/2003	11/05/2013	Common Stock	10,000	10,000	D	

Reporting Owners

	Relationships						
Reporting Owner Name / Address	Director	10% Owner	Officer	Other			
KAUFMAN STEPHEN P C/O KLA-TENCOR CORPORATION 160 RIO ROBLES SAN JOSE, CA 95130	Х						

Signatures

By: John Kispert For: Stephen P. Kaufman	05/03/2007
**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).
- (1) Each restricted stock unit represents a contingent right to receive one share of KLAC common stock.
- (2) The Option is immediately exercisable for all the underlying shares.
- (3) Option expiration date was reported incorrectly on the original Form 4.

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.