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).

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* KISPERT JOHN H			2. Issuer Name and Ticker or Trading Symbol KLA TENCOR CORP [KLAC]							1	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)								
(Last) (First) (Middle) C/O KLA-TENCOR CORPORATION, 160 RIO ROBLES			3. Date of Earliest Transaction (Month/Day/Year) 09/26/2005							_X_	X Officer (give title below) Other (specify below) Chief Financial Officer								
(Street)			4. If Amendment, Date Original Filed(Month/Day/Year)							_X_ Fo	orm filed by C	one Reporting F			Line)				
SAN JOS	E, CA 951	.30									For	rm filed by M	lore than One R	Reporting Person	ı				
(City	7)	(State)	(Zip)			1	able	I - No	n-Der	ivativ	e Securitie	s Ac	quired, I	Disposed o	of, or Benef	icially Own	ed		
(Instr. 3) Date		2. Transaction Date (Month/Day/Yea	2A. Deemed Execution Date, i any (Month/Day/Year		Date, if	(Instr. 8)			4. Securities Acqu (A) or Disposed o (Instr. 3, 4 and 5)		of (D					Ownership Form: E Direct (D)		Nature Indirect eneficial wnership	
							Co	Code V		Amoi	nount (A) or (D)		Price				or Indirect (I) (Instr. 4)		nstr. 4)
Common	Stock												6,68	1			I	b	y Trust
Common Units (1)	Common Stock-Restricted Stock Units (1)											48,3	33			D			
D : 1 F		. 1. 6 1	1 0 22 1	e 1		1.11	.,		.,										
Reminder: F	Report on a se	eparate line for each	class of securities b	eneficial	ly o	vned dire	ctly c		-	ns wh	o respon	d to 1	he coll	ection of	informati	on contain	ed Si	FC 14	74 (9-02)
								in	this	form		equir	ed to re	espond u		form displa		20 14	74 (5-02)
			Table II								of, or Bene tible securi		y Owne	d					
1. Title of	2.	3. Transaction	3A. Deemed	4.		5. Numb	er	6. Da	te Exe	rcisal	ole and		Title and	Amount	8. Price of	9. Number	of 10.		11. Natur
Derivative Security (Instr. 3)	Conversion or Exercise Price of Derivative Security	Date (Month/Day/Year)	Execution Date, if any (Month/Day/Year)	Code		Securities Acquires or Dispos of (D)	ecurities equired (A) r Disposed						Underlyi curities str. 3 and		Derivative Security (Instr. 5)	Derivative Securities Beneficially Owned Following Reported	Forn Deri Secu Dire	of vative	(Instr. 4)
					and 5)									Transaction	n(s) (I)				
								Date Exerc	cisable		xpiration ate	Tit	le	Amount or Number of		(Instr. 4)	(Inst	r. 4)	
				Code	V	(A)	(D)							Shares					
Non- Qualified Stock Option (right to buy)	\$ 47.95	09/26/2005		A		75,000		09/2	6/200	06 0	9/26/2012	<i>)</i> .	ommon Stock	75,000	\$ 0	75,000		D	
Non- Qualified Stock Option (right to buy)	\$ 26.25							11/1	0/200	01 1	1/10/2010)	ommon Stock	1,000		1,000		D	
Non- Qualified Stock Option (right to buy)	\$ 29.31							10/0	2/200	02 1	0/02/2013		mmon Stock	14,000		14,000		D	
Non- Qualified Stock Option (right to buy)	\$ 32.75							04/0	4/200	02 0	4/04/201		ommon Stock	2,667		2,667		D	

Non-										
Qualified Stock Option (right to buy)	\$ 34.67			11/08/2003	01/28/2013	Common Stock	11,250	11,250	D	
Non- Qualified Stock Option (right to buy)	\$ 37.05			11/08/2003	11/08/2012	Common Stock	5,625	5,625	D	
Non- Qualified Stock Option (right to buy)	\$ 40.66			10/27/2004	08/02/2014	Common Stock	11,250	11,250	D	
Non- Qualified Stock Option (right to buy)	\$ 41.79			09/21/2005	09/21/2014	Common Stock	75,000	75,000	D	
Non- Qualified Stock Option (right to buy)	\$ 44.6875			08/13/2001	08/13/2010	Common Stock	8,658	8,658	D	
Non- Qualified Stock Option (right to buy)	\$ 45.16			10/27/2004	04/26/2014	Common Stock	18,750	18,750	D	
Non- Qualified Stock Option (right to buy)	\$ 51.229			11/08/2003	07/30/2013	Common Stock	12,500	12,500	D	
Non- Qualified Stock Option (right to buy)	\$ 53.86			10/27/2004	10/27/2013	Common Stock	30,000	30,000	D	
Non- Qualified Stock Option (right to buy)	\$ 58.10			10/27/2004	01/27/2014	Common Stock	15,000	15,000	D	

Reporting Owners

	Relationships						
Reporting Owner Name / Address	Director	10% Owner	Officer	Other			
KISPERT JOHN H C/O KLA-TENCOR CORPORATION 160 RIO ROBLES SAN JOSE, CA 95130			Chief Financial Officer				

Signatures

By: Stuart J. Nichols For: John H. Kispert		09/27/2005
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**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.

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.