FORM 4	4
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UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

OMB APPROVAL OMB Number: 3235-0287 Estimated average burden hours per response... 0.5

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 Type Respons	es)										
1. Name and Address of KISPERT JOHN I	2. Issuer Name and KLA TENCOR (· ·		5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner					
(Last) C/O KLA-TENCO ROBLES	037 4 CO 770	3. Date of Earliest Transaction (Month/Day/Year) 10/18/2004						X_Officer (give title below) Other (specify below) Chief Financial Officer			
(Street) SAN JOSE, CA 95130			4. If Amendment, Da	ate Original	Filed	(Month/Day/	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)	(Zip)	r	Fable I - No	on-De	erivative S	Securitie	ired, Disposed of, or Beneficially Owned			
1.Title of Security (Instr. 3)		2. Transaction Date (Month/Day/Year)	Execution Date, if	(Instr. 8)		4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) Amount (A) or (D) Price		of (D)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership
Common Stock-Re Units (1)	estricted Stock	10/18/2004		А		48,333	А	\$ 0 (2)	48,333	D	
Common Stock									7,008	Ι	by Trust

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned

	(e.g., puts, calls, warrants, options, convertible securities)																		
Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	Code		of	vative rities nired or osed) :. 3,	Expiration Date (Month/Day/Year)		Expiration Date		Expiration Date		7. Title and of Underlyin Securities (Instr. 3 and	ng	Derivative Security (Instr. 5)	Derivative Securities Beneficially Owned Following	Derivative Security: Direct (D) or Indirect	Beneficial
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares								
Non- Qualified Stock Option (right to buy)	\$ 10.63							08/31/1999	08/31/2008	Common Stock	5,000		5,000	D					
Non- Qualified Stock Option (right to buy)	\$ 26.25							11/10/2001	11/10/2010	Common Stock	9,000		9,000	D					
Non- Qualified Stock Option (right to buy)	\$ 29.31							10/02/2002	10/02/2011	Common Stock	38,000		38,000	D					

Non- Qualified Stock Option (right to buy)	\$ 32.75		04/04/2002	04/04/2011	Common Stock	10,667	10,667	D	
Non- Qualified Stock Option (right to buy)	\$ 33.75		10/27/2000	10/27/2009	Common Stock	1,875	1,875	D	
Non- Qualified Stock Option (right to buy)	\$ 34.67		11/08/2003	01/28/2013	Common Stock	25,000	25,000	D	
Non- Qualified Stock Option (right to buy)	\$ 37.05		11/08/2003	11/08/2012	Common Stock	12,500	12,500	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							
Re	eporting Owner Name / Address	Director	10% Owner	Officer	Other				
C/O KI 160 RI	RT JOHN H LA-TENCOR CORPORATION O ROBLES DSE, CA 95130			Chief Financial Officer					

Signatures

By: Stuart J. Nichols For: John H. Kispert	10/20/2004
**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).
- (1) Each restricted stock unit represents a contingent right to receive one share of KLAC common stock.
- (2) The restricted stock units vest in two equal installments. The first half vests on October 18, 2008. The second half vests the following year on October 18, 2009.

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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