FORM 4

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

OMB APPROVAL

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

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See

Non-Qualified Stock

Option

(right to buy)

\$ 44.76

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

may co	obligations ontinue. See tion 1(b).	Filed pu	rsuant to Section					ies Exch mpany A			f 1934 o	r Sect	ion 3	0(h) of t	the				
(Print or Typ	e Responses)																	
1. Name and Address of Reporting Person *- BINGHAM H RAYMOND					2. Issuer Name and Ticker or Trading Symbol KLA TENCOR CORP [KLAC]							4.	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner						
(Last) (First) (Middle) C/O KLA-TENCOR CORPORATION, 160 RIO ROBLES				3. Date of Earliest Transaction (Month/Day/Year) 05/02/2006							-		fficer (give t	itle below)		ner (specify	pelow)		
(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 PersonForm filed by More than One Reporting Person						
SAN JOS (City	E, CA 951	(State)	(Zip)				Tab	ala I. Nan	Dor	ivativa (Convitios	Agguin	rod D	isposed a	f or Donofi	aially Own	ad.		
1. Title of Security (Instr. 3) 2. Transaction Date			Date	2A. Deemed Execution Date, if		3. Transaction Code 4. Securities Acquired (A) or Disposed of (D)				ired 5	Owned Following Reported			6. Ownership					
	(Month/Da		(Month/Day/Yea		(Month/Day/Year)			(Instr. 8)		Amount	(A) or (D)		(Instr. 3 and 4) Dire or II (I)		Form: Direct (I or Indire (I) (Instr. 4	O) Ovect (In	neficial vnership str. 4)		
Common Units (1)	Common Stock-Restricted Stock										(=)		1,000				D		
Reminder: F	Report on a se	eparate line for each	class of securities be					Pe in	rson this f urre	form ar ntly val	e not red lid OMB	uired contro	to res I num	spond ur iber.		on containe form displa		EC 147	74 (9-02)
	1	T		(e.g., p		calls, wa	arra	nts, option	ıs, co	nvertib	le securiti	es)				ı			ı
1. Title of 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		5. Number of Derivation Securities Acquires (A) or Dispose of (D) (Instr. 3 and 5)	ive ies ed	6. Date E Expiratio (Month/I	n Da	te	d	of Und Securi	Sitle and Amount Juderlying Unities Security (Instr. 5) Beneficiall Owned Following Reported Transaction (Instr. 4)			Ownership Form of Derivative Security: Direct (D) or Indirect		11. Natur of Indirec Beneficia Ownersh (Instr. 4)	
				Code	v	(A)	(D)	Date Exercisal	ble	Expirat	tion Date	Title		Amount or Number of Shares					
Non- Qualified Stock Option (right to buy)	\$ 47.86	05/02/2006		A		1,250		05/02/2	2006	05/0.	2/2013	Com		1,250	\$ 0	1,250		D	
Non- Qualified Stock Option (right to buy)	\$ 40.24							05/11/2	2005	05/1	1/2015	Com		2,500		2,500		D	
Non- Qualified Stock Option (right to buy)	\$ 40.68							10/18/2	2004	10/1	8/2014	Com		2,500		2,500		D	

Common

Stock

5,000

5,000

D

01/25/2005 01/25/2015

Non- Qualified Stock Option (right to buy)	\$ 47.23			11/09/2001	11/09/2011	Common Stock	10,000	10,000	D	
Non- Qualified Stock Option (right to buy)	\$ 49.99			11/04/2005	11/04/2012	Common Stock	3,750	3,750	D	
Non- Qualified Stock Option (right to buy)	\$ 51.35			08/02/2005	08/02/2012 ⁽²⁾	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)	\$ 52.75			08/15/2000	08/15/2010	Common Stock	20,000	20,000	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			
BINGHAM H RAYMOND C/O KLA-TENCOR CORPORATION 160 RIO ROBLES SAN JOSE, CA 95130	X						

Signatures

By: Stuart J. Nichols For: H. Raymond Bingham	05/02/2006		
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) 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.