FORM 4

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

OMB APPR	OVAL
OMB Number:	3235-0287
Estimated average b	ourden
hours per response	0.5

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

Stock

Option

(right to buy) Non-Qualified Stock

Option

(right to buy)

\$ 40.68

\$ 44.76

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

may co	obligations ontinue. See tion 1(b).	Filed pu	rsuant to Section					ies Excha npany Ac			1934 c	or Sec	tion 3	0(h) of	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]									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				Date of Earliest Transaction (Month/Day/Year) 08/01/2006 4. If Amendment, Date Original Filed(Month/Day/Year)									0	officer (give t	itle below)	Oth	er (specify be	low)	
(Street) SAN JOSE, CA 95130			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)				Tak	ola I. Nan l	Dor	ivativa S	oourities.	Aggni	ired D	ispasad a	f or Donofi	cially Owne	d		
1 Title of Se	acurity.		2 Transaction	2A. I	Joon	nad	-	Transaction								-	6.	7 1	Nature
(Instr. 3)				Exection (ear)		xecution Date, if		Code		4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)							Ownership Form:		
				(14101)		ruy, 1 cui		Code V	7 .	Amount	(A) or (D)	Price	or Indirect (I)						
Common Units (1)	Stock-Res	tricted Stock											1,000)			D		
	2. Conversion	3. Transaction Date	Table II 3A. Deemed Execution Date, if	(<i>e.g.</i> , p	uts,	5. Num	arra		ispo s, co	osed of, onvertible	d OMB or Benefi e securit	cially (ies)	Owned	Amount	8. Price of	9. Number of Derivative	of 10.	rship	11. Natu
Security (Instr. 3)		(Month/Day/Year)		Code		Derivat Securit Acquire (A) or Dispose of (D) (Instr. 3 and 5)	ies ed ed	(Month/Da	Day/Year) Securities Sec		Security (Instr. 5)	Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Form of Derivat Security Direct (or Indir	of ative ity: (D) irect	Beneficis Ownersh (Instr. 4)				
				Code	v	(A)	(D)	Date Exercisabl	le	Expirati	on Date	Title		Amount or Number of Shares					
Non- Qualified Stock Option (right to buy)	\$ 41.45	08/01/2006		A		1,250		08/01/20	006	08/01	/2013		nmon ock	1,250	\$ 0	1,250	D	•	
Non- Qualified Stock Option (right to buy)	\$ 40.24							05/11/20)05	05/11	/2015		nmon ock	2,500		2,500	Г		
Non- Qualified																			

10/18/2004

01/25/2005 01/25/2015

10/18/2014

Common

Stock

Common

Stock

2,500

5,000

2,500

5,000

D

D

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)	\$ 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	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



Explanation of Responses:

- \star 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.

 $Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, {\it see}\ Instruction\ 6 for procedure.$

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.