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

OMB APPRO	OVAL				
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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 Ty	e Responses)																
1. Name and Address of Reporting Person* BINGHAM H RAYMOND (Last) (First) (Middle) C/O KLA-TENCOR CORPORATION, 160 RIO ROBLES				Z. Issuer Name and Ticker or Trading Symbol KLA TENCOR CORP [KLAC] 3. Date of Earliest Transaction (Month/Day/Year) 03/29/2007							5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner							
												Officer (give	title below)	Oth	er (specify belo	N)		
(Street) SAN JOSE, CA 95130				4. If Amendment, Date Original Filed(Month/Day/Year) 03/30/2007							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)			,	Гablе	e I - Non-Der	vative Securi	ties Acqu	uired, l	Disposed (of, or Bene	ficially Own	ed			
1.Title of S (Instr. 3)	ecurity		2. Transaction Date (Month/Day/Year	2A. De Executi any (Month	ion I	Date, if	Code (Inst	e (r. 8) (A) or Disposed nstr. 3, 4 and (A) or (D)	or (D)	D) Owned Following Report Transaction(s) (Instr. 3 and 4)		ecurities Beneficially		Amount of Securities Beneficially (Amount of Securities Beneficially (Downers) (Porm: Str. 3 and 4) (Downers) (Form: Direct (I or Indirect (I)) (Downers) (D		Ownership Form: Direct (D) or Indirect	Beneficial Ownership
	·	eparate line for each	Table II -	Derivat	ive S	Securiti alls, wa	es Ac	Persor in this a curre	s who responding a second are not only valid Olessed of, or Be on or other tible second and	require MB cont neficially urities)	ed to re trol nu y Owne	espond (mber. ed	unless the	form displ	ays	1474 (9-02)		
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security		3A. Deemed Execution Date, i: r) any (Month/Day/Year	if Transaction of Code Der (Instr. 8) Sec Acc (A) Dis		5. Num of Deriva Securi Acquir (A) or Dispos of (D) (Instr. and 5)	tive ties red	6. Date Exercisable and Expiration Date (Month/Day/Year)		of Un Secu	7. Title and Amoun of Underlying Securities (Instr. 3 and 4)			9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	Ownersh Form of Derivativ Security: Direct (D or Indirect	Ownershi (Instr. 4) O)		
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title		Amount or Number of Shares						

	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: John Kispert For: Raymond H. Bingham	04/02/2007
**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).

Remarks:

In error, the option grant transaction was not on the original Form 4 filing.

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.