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 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 Type Responses)		•								
1. Name and Address of Reporting Pe BINGHAM H RAYMOND	2. Issuer Name a KLA TENCOF				nbol	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 05/04/2007	Transactio	on (M	onth/Day	Year)	Officer (give title below)	Other (specify l	pelow)	
(Street)	4. If Amendment,	Date Origi	nal F	iled(Month/	Day/Year	.)	6. Individual or Joint/Group Filing	Check Applica	ble Line)	
SAN JOSE, CA 95130								_X_Form filed by One Reporting Person Form filed by More than One Reporting	Person	
(City) (State)	(Zip)	Та	ıble I - Noı	ı-Der	ivative S	ecuriti	es Acqui	ired, Disposed of, or Beneficially	Owned	
1.Title of Security	2A. Deemed	3. Transac				5. Amount of Securities 6. 7. Nature				
1.Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Yea		Execution Date, if	Code (Instr. 8)		(A) or Disposed of (D) (Instr. 3, 4 and 5)			Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	Ownership Form:	
		,	Code	V	Amount	(A) or (D)	Price		or Indirect (I) (Instr. 4)	(Instr. 4)
Common Stock	05/01/2007		M		92	A	\$ 40.68	92	D	
Common Stock	05/01/2007		S		92	D	\$ 55.81	0	D	
Common Stock	05/01/2007		M		92	A	\$ 40.68	92	D	
Common Stock	05/01/2007		S		92	D	\$ 55.80		D	
Common Stock	05/01/2007		M		92	A	\$ 40.68	02	D	
Common Stock	05/01/2007		S		92	D	\$ 55.79	0	D	
Common Stock	05/01/2007		M		184	A	\$ 40.68	184	D	
Common Stock	05/01/2007		S		184	D	\$ 55.77	0	D	
Common Stock	05/01/2007		M		312	A	\$ 40.68	312	D	
Common Stock	05/01/2007		S		312	D	\$ 55.76	0	D	
Common Stock	05/01/2007		M		514	A	\$ 40.68	514	D	
Common Stock	05/01/2007		S		514	D	\$ 55.75	0	D	
Common Stock	05/01/2007		M		459	A	\$ 40.68	459	D	
Common Stock	05/01/2007		S		459	D	\$ 55.74	0	D	
Common Stock	05/01/2007		M		92	A	\$ 40.68	92	D	
Common Stock	05/01/2007		S		92		\$ 55.66		D	
Common Stock	05/01/2007		M		275		\$ 40.68		D	
Common Stock	05/01/2007		S		275	D	\$ 55.65	0	D	

Common Stock	05/01/2007	М	184	A	\$ 40.68 1	84	D	
Common Stock	05/01/2007	S	184	D	\$ 55.64		D	
Common Stock	05/01/2007	М	92	A	\$ 40.68)2	D	
Common Stock	05/01/2007	S	92	D	\$ 55.62		D	
Common Stock	05/01/2007	М	112	A	\$ 40.68	12	D	
Common Stock	05/01/2007	М	898	A	\$ 44.76		D	
Common Stock	05/01/2007	S	898	D	\$ 55.59	12	D	
Common Stock	05/01/2007	M	367	A	\$ 44.76	179	D	
Common Stock	05/01/2007	S	367	D	\$ 55.58		D	
Common Stock	05/01/2007	M	184	A	\$ 44.76	296	D	
Common Stock	05/01/2007	S	184	D	\$ 55.57		D	
Common Stock	05/01/2007	M	275	A	\$ 44.76 3	887	D	

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

Persons who respond to the collection of information SEC 1474 (9-02) contained in this form are not required to respond unless the form displays a currently valid OMB control number.

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

Security (Instr. 3)	Conversion	Date (Month/Day/Year)	Execution Date, if	Code		5. Numb of Derive Secur Acqui (A) or Dispo of (D) (Instr. 4, and	er ative ities ired sed	6. Date Exercisable and Expiration Date (Month/Day/Year)		Amount of Underlying		Derivative Security (Instr. 5)	Securities Beneficially Owned Following Reported Transaction(s)	Ownership of Form of Derivative Security: Direct (D) or Indirect	Beneficial	
				Code	v	(A)		Exercisable	Expiration Date	Title	Amount or Number of Shares					

Reporting Owners

	Relationships					
Reporting Owner Name / Address	Director	10% Owner	Officer	Other		
BINGHAM H RAYMOND C/O KLA-TENCOR CORPORATION	X					
160 RIO ROBLES SAN JOSE, CA 95130						

Signatures

By: John Kispert For: Raymond H. Bingham	05/04/2007
***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).

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.