GROSS LAWRENCE A Form 3 October 25, 2006 UNITED STATES SECURITIES AND EXCHANGE COMMISSION FORM 3 Washington, D.C. 20549 OMB

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

OMB APPROVAL

3235-0104 Number: January 31, Expires: 2005 Estimated average burden hours per 0.5 response...

(Print or Type Responses)

1. Name and Address of Reporting Person <u>*</u> GROSS LAWRENCE A			2. Date of Event Requiring Statement (Month/Day/Year)	3. Issuer Name and Ticker or Trading Symbol KLA TENCOR CORP [klac]				
(Last) (First) (Middle) C/O KLA-TENCOR CORPORATION, 160 RIO			10/16/2006	4. Relationship of Reporting Person(s) to Issuer(Check all applicable)			5. If Amendment, Date Original Filed(Month/Day/Year)	
ROBLES SAN JOSE	(Street)	134		Director 10% Owner X_Officer Other (give title below) (specify below) EVP-Legal and Interim GC		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)	Table I - I	Non-Derivat	tive Securit	ies Be	neficially Owned	
1.Title of Secu (Instr. 4)	ırity		2. Amount o Beneficially (Instr. 4)		3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Na Owne (Instr	*	
Reminder: Rep owned directly	or indirectly Perso inform requi	ons who res nation cont red to respo	ach class of securities benefic spond to the collection of ained in this form are not ond unless the form disp MB control number.	t s	BEC 1473 (7-02	2)		
Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)								

Derivative Securities Beneficially Owned (*e.g.*, puts, calls, warrants, options, convertible securities) l'able

1. Title of Derivative Security 2. Date (Instr. 4) Expirati (Month/Day)		ate	3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Conversion or Exercise Price of	5. Ownership Form of Derivative	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date	Title	Amount or Number of	Derivative Security: Security Direct (D)		

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Shares	or Indirect
	(I)
	(Instr. 5)

Reporting Owners

Reporting Owner Name / Address		Relationships						
		Director	10% Owner	Officer	Other			
GROSS LAWRENCE A C/O KLA-TENCOR CORPORATION 160 RIO ROBLES SAN JOSE, CA 95134		Â	Â	EVP-Legal and Interim GC	Â			
Signatures								
Lawrence A. 10 Gross 10	0/25/2006							
<u>**</u> Signature of Reporting Person	Date							

Explanation of Responses:

No securities are beneficially owned

- * If the form is filed by more than one reporting person, *see* Instruction 5(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).

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Remarks:

No Securities Owned

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.