

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

OMB APPROVAL					
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Estimated average burden					
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INITIAL STATEMENT OF 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 Respo	nses)										
1. Name and Address of Reporting Person* Tsai Bin-Ming Ben		2. Date of Event Requiring Statement (Month/Day/Year) 12/21/2006		3. Issuer Name and Ticker or Trading Symbol KLA TENCOR CORP [klac]							
160 RIO ROBLI	(First)	(Middle)	12/21/2006				4. Relationship of Issuer	, ,		5. If Amendment, Date Original Filed(Month/Day/Year)	
SAN JOSE, CA	(Street) 95134						(Check all applicable) Director			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)			Т	able I	- Non-Derivat	ive Securities	Beneficially	Owned	
1.Title of Security (Instr. 4)			2. Amount of Se Beneficially Ow (Instr. 4)			ally Own	ned	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)		
Common Stock			2,	2,915			D				
Reminder: Report or	Persor	ns who respond the form displa	I to the c ays a cur	ollection rently val	of info	ormatio IB cont	n contained in t		·		
1. Title of Derivative (Instr. 4)	e Security	an	d Expiration Date onth/Day/Year)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		Price of Derivative	5. Ownership Form of Derivative Security: Direct	6. Nature of Indirect Beneficial Ownership (Instr. 5)		
	_		ate xercisable	Expiration Date	Title Amount Shares		at or Number of	Security	(D) or Indirect (I) (Instr. 5)	t	

Reporting Owners

Panarting Owner Name /	Relationships					
Reporting Owner Name / Address	Director	10% Owner	Officer	Other		
Tsai Bin-Ming Ben 160 RIO ROBLES SAN JOSE, CA 95134			Executive Vice President			

Signatures

Bin-Ming Ben Tsai	01/03/2007
**Signature of Reporting Person	Date

Explanation of Responses:

- * 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).

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.