URBANEK LIDA

Form 4

December 15, 2004

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB APPROVAL OMB

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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 See Instruction

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * URBANEK LIDA			2. Issuer Name and Ticker or Trading Symbol KLA TENCOR CORP [KLAC]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)		
(Last)	(First)	(Middle)	3. Date of Earliest Transaction	(Check an applicable)		
			(Month/Day/Year)	X Director 10% Owner		
C/O KLA-TENCOR			12/14/2004	Officer (give title Other (specify		
CORPORATION, 160 RIO				below) below)		
ROBLES						
	(Street)		4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check		
			Filed(Month/Day/Year)	Applicable Line)		
				_X_Form filed by One Reporting PersonForm filed by More than One Reporting Person		
SAN JOSE, CA 95130						

(City)	(State)	(Zip) Tal	ble I - Non	-Derivativ	e Sec	urities Acqu	ired, Disposed o	f, or Benefici	ally Owned	
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. 4. Securities Acquired (A Transaction Disposed of (D) Code (Instr. 3, 4 and 5) (Instr. 8) (A) or			(D)	5. Amount of 6. Securities Ownership Beneficially Form: Owned Direct (D) Following or Indirect Reported (I) Transaction(s) (Instr. 4) (Instr. 3 and 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)	
Common Stock	12/14/2004		Code V M	Amount 5,000	(D)	Price \$ 12.5	5,000	D		
Common Stock	12/14/2004		S	5,000	D	\$ 47.1658	0	D		
Common Stock							29,555	I	Family Foundation	
Common Stock							1,271,414	I	by Trust	

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

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SEC 1474 (9-02)

$\label{thm:convergence} \begin{tabular}{ll} Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned \\ (e.g., puts, calls, warrants, options, convertible securities) \end{tabular}$

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transactic Code (Instr. 8)	Secu Acqu (A) o Disp (D)	or cosed of cr. 3, 4,	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amour Underlying Securit (Instr. 3 and 4)	
				Code V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amo or Num of Sh
Non-Qualified Stock Option (right to buy)	\$ 12.5	12/14/2004		M		5,000	06/13/1996	05/13/2006	Common Stock	5,0
Non-Qualified Stock Option (right to buy)	\$ 13.44						07/22/1999	07/22/2008	Common Stock	5,0
Non-Qualified Stock Option (right to buy)	\$ 17.59						11/17/1998	11/17/2008	Common Stock	6,6
Non-Qualified Stock Option (right to buy)	\$ 17.78						06/15/1995	05/15/2005	Common Stock	1,9
Non-Qualified Stock Option (right to buy)	\$ 26.25						11/10/2000	11/10/2010	Common Stock	10,0
Non-Qualified Stock Option (right to buy)	\$ 29						07/22/1998	07/22/2007	Common Stock	5,0
Non-Qualified Stock Option (right to buy)	\$ 37.05						11/08/2002	11/08/2012	Common Stock	10,0
Non-Qualified Stock Option (right to buy)	\$ 40.68						10/18/2004	10/18/2014	Common Stock	2,5
Non-Qualified Stock Option (right to buy)	\$ 46.28						11/16/1999	11/16/2009	Common Stock	10,0

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Non-Qualified Stock Option (right to buy)	\$ 47.23	11/09/2001	11/09/2011	Common Stock	10,0
Non-Qualified Stock Option (right to buy)	\$ 59.44	11/05/2003	11/05/2013	Common Stock	10,0

Reporting Owners

Reporting Owner Name / Address	Relationships					
	Director	10% Owner	Officer	Other		
URBANEK LIDA C/O KLA-TENCOR CORPORATION 160 RIO ROBLES SAN JOSE, CA 95130	X					
0'						

Signatures

By: Stuart J. Nichols For: Lida
Urbanek

**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.

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