URBANEK LIDA

Form 4 May 11, 2005

FORM 4

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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Form 5 obligations may continue. See Instruction

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

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) C/O KLA-TI CORPORAT ROBLES		(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 05/11/2005	X Director 10% Owner Officer (give title Other (specify below)			
SAN JOSE,	(Street) CA 95130		4. If Amendment, Date Original Filed(Month/Day/Year)	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 - Non-Derivative Securities Ac	quired, Disposed of, or Beneficially Owned			

(City)	(State)	(Zip) Tab	le I - Non-	Derivativ	e Secu	rities Ac	quired, Disposed	of, or Benefic	ially Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transactic Code (Instr. 8)	4. Securion(A) or D (Instr. 3,	ispose 4 and (A) or	d of (D)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
Common Stock	05/11/2005		M	1,946	A	\$ 17.78	1,946	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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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)

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. Transactio Code (Instr. 8)	5. Numb orDerivative Securities Acquired Disposed (Instr. 3, 5)	ve es d (A) or d of (D)	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and A Underlying Se (Instr. 3 and 4
				Code V	(A)	(D)	Date Exercisable	Expiration Date	Title
Non-Qualified Stock Option (right to buy)	\$ 17.78	05/11/2005		M		1,946	06/15/1995	05/15/2005	Common Stock
Non-Qualified Stock Option (right to buy)	\$ 40.24	05/11/2005		A	2,500		05/11/2005	05/11/2015	Common Stock
Non-Qualified Stock Option (right to buy)	\$ 12.5						06/13/1996	05/13/2006	Common Stock
Non-Qualified Stock Option (right to buy)	\$ 13.44						07/22/1999	07/22/2008	Common Stock
Non-Qualified Stock Option (right to buy)	\$ 17.59						11/17/1998	11/17/2008	Common Stock
Non-Qualified Stock Option (right to buy)	\$ 26.25						11/10/2000	11/10/2010	Common Stock
Non-Qualified Stock Option (right to buy)	\$ 29						07/22/1998	07/22/2007	Common Stock
Non-Qualified Stock Option (right to buy)	\$ 37.05						11/08/2002	11/08/2012	Common Stock
Non-Qualified Stock Option (right to buy)	\$ 40.68						10/18/2004	10/18/2014	Common Stock
Non-Qualified Stock Option (right to buy)	\$ 44.76						01/25/2005	01/25/2015	Common Stock

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Non-Qualified Stock Option (right to buy)	\$ 46.28	11/16/1999	11/16/2009	Common Stock
Non-Qualified Stock Option (right to buy)	\$ 47.23	11/09/2001	11/09/2011	Common Stock
Non-Qualified Stock Option (right to buy)	\$ 59.44	11/05/2003	11/05/2013	Common Stock

Relationshine

Reporting Owners

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

Signatures

By: Stuart J. Nichols For: Lida Urbanek 05/11/2005

**Signature of Reporting Person Date

Explanation of Responses:

* If the form is filed by more than one reporting person, see Instruction 4(b)(v).

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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^{**} Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).