## SCHEDULE 14A INFORMATION

PROXY STATEMENT PURSUANT TO SECTION 14(A) OF THE SECURITIES EXCHANGE ACT OF 1934 (AMENDMENT NO. )

File	d by	the Registrant [X]	
File	d by	a Party other than the Registrant	[ ]
Chec	k the	e appropriate box:	
[X]	Prel Defi Defi	liminary Proxy Statement initive Proxy Statement initive Additional Materials iciting Material Pursuant to sec.2	<pre><c> [ ] Confidential, for Use of the Commission Only (as permitted by Rule 14a-6(e)(2)) 40.14a-11(c) or sec.240.14a-12</c></pre>
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		KLA-TENCOR COI	RPORATION
		(Name of Registrant as Spec	cified In Its Charter)
	(Name	e of Person(s) Filing Proxy Stateme	
Paym	ent c	of Filing Fee (Check the appropria	te box):
[X]	No f	fee required.	
[ ]		5 per Exchange Act Rules 0-11(c)(1) Item 22(a)(2) of Schedule 14A.	)(ii), or 14a-6(i)(1), or 14a-6(i)(2)
[ ]		) per each party to the controversy- $6(i)(3)$ .	y pursuant to Exchange Act Rule
[ ]	Fee	computed on table below per Exchan	nge Act Rules 14a-6(i)(4) and 0-11.
	(1)	Title of each class of securities	s to which transaction applies:
	(2)	Aggregate number of securities to	o which transaction applies:
	(3)	± ±	11 (Set forth the amount on which the
	(4)	Proposed maximum aggregate value	of transaction:
	(5)	Total fee paid:	
[ ]	Fee	paid previously with preliminary m	materials.
[ ]	0-11 prev	l(a)(2) and identify the filing for	ffset as provided by Exchange Act Rule r which the offsetting fee was paid ing by registration statement number, of its filing.
	(1)	Amount Previously Paid:	
	(2)	Form, Schedule or Registration St	tatement No.:
	(3)	Filing Party:	
	(4)	Date Filed:	
		KLA-TENCO	OR CORPORATION
			EFTING OF STOCKHOLDEDS

NOTICE OF ANNUAL MEETING OF STOCKHOLDER:

To the Stockholders:

NOTICE IS HEREBY GIVEN that the Annual Meeting of Stockholders of KLA-Tencor Corporation (the "Company"), a Delaware corporation, will be held on Tuesday, November 16, 1999 at 11:00 a.m, at the Company's offices located at One Technology Drive, Milpitas, California 95035, for the following purposes:

1. To elect four Class I directors to serve for a three year term and until their successors are elected.

- 2. To ratify the appointment of PricewaterhouseCoopers LLP as independent accountants of the Company for the fiscal year ending June 30, 2000.
- To transact such other business as may properly come before the meeting and any adjournments thereof.

The foregoing items of business are more fully described in the Proxy Statement accompanying this Notice.

Only stockholders of record at the close of business on September 20, 1999 are entitled to notice of and to vote at the meeting.

Sincerely,

Larry W. Sonsini Secretary

San Jose, California October 15, 1999

## YOUR VOTE IS IMPORTANT

All stockholders are cordially invited to attend the meeting in person, however, to assure your representation at the meeting, as promptly as possible, please either sign and date the enclosed proxy card and return it in the enclosed envelope or follow the instructions on the enclosed proxy card to vote telephonically or via the Internet. Any stockholder attending the meeting may vote in person even if he or she returned a proxy.

KLA-TENCOR CORPORATION

## PROXY STATEMENT

#### INFORMATION CONCERNING SOLICITATION AND VOTING

#### GENERAL

The enclosed Proxy is solicited on behalf of KLA-Tencor Corporation (the "Company") for use at the Annual Meeting of Stockholders to be held on Tuesday, November 16, 1999 at 11:00 a.m., Pacific Time, or at any adjournment(s) thereof (the "Annual Meeting"), for the purposes set forth herein and in the accompanying Notice of Annual Meeting of Stockholders. The Annual Meeting will be held at the Company's offices at One Technology Drive, Milpitas, California 95035. The Company's principal executive offices are located at 160 Rio Robles, San Jose, California 95134 and its telephone number is (408) 875-3000.

These proxy solicitation materials were mailed on or about October 15, 1999 to all stockholders entitled to vote.

## RECORD DATE

Stockholders of record at the close of business on September 20, 1999 are entitled to notice of and to vote at the Annual Meeting. As of the record date 89,491,136 shares of the Company's Common Stock, \$0.001 par value, were issued and outstanding.

## REVOCABILITY OF PROXIES

Any Proxy given pursuant to this solicitation may be revoked by the person giving it at any time before its use by delivering to the Company a written notice of revocation or a duly executed proxy bearing a later date or by attending the meeting and voting in person.

## QUORUM; ABSTENTIONS; BROKER NON-VOTES

The required quorum for the transaction of business at the Annual Meeting is a majority of the votes eligible to be cast by holders of shares of Common Stock issued and outstanding on the record date. Shares that are voted "FOR," "AGAINST," "ABSTAIN" or "WITHHELD FROM" a matter are treated as being present at the Annual Meeting for purposes of establishing a quorum and are also treated as shares entitled to vote at the Annual Meeting (the "Votes Cast") with respect to such matter.

Abstentions will be counted for purposes of determining both (i) the presence or absence of a quorum for the transaction of business and (ii) the total number of Votes Cast with respect to a proposal (other than the election of directors). Accordingly, abstentions will have the same effect as a vote against the proposal.

Broker non-votes will be counted for purposes of determining the presence or absence of a quorum for the transaction of business, but will not be counted for purposes of determining the number of Votes Cast with respect to the particular proposal on which the broker has expressly not voted. Accordingly,

broker non-votes will not affect the outcome of the voting on a proposal that requires a majority of the Votes Cast.

## VOTING AND SOLICITATION

On all matters to be voted upon, each share has one vote.

The cost of soliciting proxies will be borne by the Company. The Company has retained the services of Skinner & Co. to aid in the solicitation of proxies from brokers, bank nominees and other institutional owners. The Company estimates that it will pay Skinner & Co. a fee not to exceed \$5,000 for its services and will reimburse it for certain out of pocket expenses estimated to be \$45,000. In addition, the Company may reimburse brokerage firms and other persons representing beneficial owners of shares for their expenses in

forwarding solicitation material to such beneficial owners. Proxies may be solicited by certain of the Company's directors, officers and regular employees, without additional compensation, personally or by telephone or telegram.

#### DEADLINE FOR RECEIPT OF STOCKHOLDER PROPOSALS

Proposals of stockholders of the Company which are intended to be presented by such stockholders at the Company's annual meeting in 2000 must be received by the Company no later than June 17, 2000 and otherwise be in compliance with applicable laws and regulations in order that such proposals may be included in the proxy statement and form of proxy relating to that meeting.

The attached proxy card grants the proxy holders discretionary authority to vote on any matter raised at the Annual Meeting. If a stockholder intends to submit a proposal at the Company's annual meeting in 2000, which is not eligible for inclusion in the proxy statement and form of proxy relating to that meeting, the stockholder must give appropriate notice no later than August 31, 2000. If such stockholder fails to comply with the foregoing notice provision the Company intends to draft the proxy so that the proxy holders will be allowed to use their discretionary voting authority if the proposal is raised at the Company's annual meeting in 2000.

## SECURITY OWNERSHIP

## PRINCIPAL STOCKHOLDERS

As of September 20, 1999, the following persons were known to the Company to be beneficial owners of more than 5% of the Company's Common Stock:

## <TABLE>

NAME AND ADDRESS	NUMBER OF SHARES OWNED	PERCENTAGE TOTAL (1)
<\$>	<c></c>	<c></c>
The Prudential Insurance Company of America(2)	7,171,847	8.01%
Newark, NJ 07102		
Jennison Associates LLC(3)	6,844,000	7.65%
New York, NY 10017		
Capital Guardian Trust Co.(4)	5,971,900	6.67%

- (1) Based on 89,491,136 outstanding shares of Common Stock as of September 20, 1999.
- (2) Based on information provided pursuant to Schedule 13G/A filed with the SEC on January 29, 1999. Prudential presently holds 21,600 shares of Common Stock of the Company for the benefit of its general account. In addition, Prudential may have direct or indirect voting and/or investment discretion over 7,150,247 shares, including 6,844,000 shares held by Jennison Associates LLC, a wholly-owned subsidiary of Prudential (See Note 3 below).
- (3) Formerly Jennison Associates Capital Corp. Based on information provided pursuant to Schedule 13G/A filed with the SEC on February 11, 1999. Jennison Associates LLC. ("Jennison") is an institutional investor and is considered the beneficial owner only as a result of its position as manager of the funds which own the shares of Common Stock of the Company. Jennison is an autonomous, wholly-owned subsidiary of The Prudential Insurance Company of America ("Prudential"). As such, the shares of Common Stock reported by Jennison are also included in the shares of Common Stock reported by Prudential in its reporting obligations with the SEC. (See Note 2 above.)
- (4) Based on information provided pursuant to Schedule 13G filed with the Securities and Exchange Commission (the "SEC") February 12, 1999. This share amount includes 1,559,530 shares held by Capital International Limited;

1,101,160 shares held by Capital International S.A. and 220,600 shares held by Capital International, Inc., affiliated entities of Capital Guardian Trust Co. (the "Reporting

2

Entity"). Previously, The Capital Group Companies, Inc., the parent holding company of the Reporting Entity and its listed affiliated entities, reported the beneficial ownership of all such shares. On July 9, 1998 it filed a Schedule 13G indicating that it retained no beneficial ownership of shares held by its independent investment management affiliates.

## SECURITY OWNERSHIP OF MANAGEMENT

The following table sets forth the beneficial ownership of Common Stock of the Company as of September 20, 1999 (the most recent practicable date) by all directors and nominees (naming them), each of the named executive officers set forth in the Summary Compensation Table and by all directors and current executive officers as a group:

<TABLE>

	NAME	AMOUNT OWNED	APPROXIMATE PERCENTAGE OWNED*
<s></s>		<c></c>	<c></c>
Kenneth Levy(1)		1,823,644	2.04%
Kenneth L. Schroeder(2).		385,024	**
James W. Bagley(3)		25 <b>,</b> 936	**
Edward W. Barnholt(4)		11,798	* *
Leo J. Chamberlain(5)		34,359	* *
Richard J. Elkus, Jr. (6)		56,457	* *
Dean O. Morton(7)		20,936	**
Samuel Rubinovitz(8)		10,364	**
Jon D. Tompkins(9)		54,108	**
Dag Tellefsen(10)		21,498	* *
Lida Urbanek(11)		672 <b>,</b> 752	**
Robert J. Boehlke(12)		34,757	* *
Gary E. Dickerson(13)		43,848	**
Arthur P. Schnitzer(14).		163,328	**
All directors and execut	cive officers as a group (22		
1 , , ,		3,515,810	3.93%

  |  |  |

- \* Based on 89,491,136 outstanding shares of the Common Stock of the Company as of September 20, 1999.
- \*\* Less than 1%.
- (1) Includes 356,942 shares, options for which are presently exercisable or will become exercisable within 60 days of September 20, 1999 and 231,000 shares which are held in trust for the benefit of Mr. Levy's children.
- (2) Includes 303,942 shares, options for which are presently exercisable or will become exercisable within 60 days of September 20, 1999.
- (3) Includes 25,936 shares, options for which are presently exercisable or will become exercisable within 60 days of September 20, 1999.
- (4) Includes 11,798 shares, options for which are presently exercisable or will become exercisable within 60 days of September 20, 1999.
- (5) Includes 12,362 shares, options for which are presently exercisable or will become exercisable within 60 days of September 20, 1999.
- (6) Includes 6,457 shares, options for which are presently exercisable or will become exercisable within 60 days of September 20, 1999.
- (7) Includes 15,936 shares, options for which are presently exercisable or will become exercisable within 60 days of September 20, 1999.
- (8) Includes 6,364 shares, options for which are presently exercisable or will become exercisable within 60 days of September 20, 1999.

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- (9) Includes 43,517 shares, options for which are presently exercisable or will become exercisable within 60 days of September 20, 1999.
- (10) Includes 20,399 shares, options for which are presently exercisable or will become exercisable within 60 days of September 20, 1999.
- (11) Includes 9,133 shares, options for which are presently exercisable or will

become exercisable within 60 days of September 20, 1999, 646, 907 shares held in trust and 16, 712 shares held by a family foundation.

- (12) Includes 30,193 shares, options for which are presently exercisable or will become exercisable within 60 days of September 20, 1999.
- (13) Includes 42,841 shares, options for which are presently exercisable or will become exercisable within 60 days of September 20, 1999.
- (14) Includes 157,797 shares, options for which are presently exercisable or will become exercisable within 60 days of September 20, 1999.
- (15) Includes 1,188,198 shares, options for which are presently exercisable or will become exercisable within 60 days of September 20, 1999.

## PROPOSAL ONE

TO ELECT FOUR CLASS I DIRECTORS TO SERVE FOR A THREE YEAR TERM AND UNTIL THEIR SUCCESSORS ARE ELECTED.

## NOMINEES

The Company has a classified board of eleven directors consisting of four Class I directors (Kenneth Levy, Samuel Rubinovitz, Jon D. Tompkins and Lida Urbanek), three Class II directors (Leo J. Chamberlain, Richard J. Elkus, Jr. and Dag Tellefsen) and four Class III directors (James W. Bagley, Edward W. Barnholt, Dean O. Morton and Kenneth L. Schroeder). The Class II directors and the Class III directors will serve until the annual meetings of stockholders to be held in 2000 and 2001 respectively, or until their respective successors are duly elected and qualified. At each annual meeting of stockholders, directors are elected for a full term of three years to succeed those directors whose terms expire at the annual meeting.

The terms of the Class I directors will expire on the date of the Annual Meeting. Accordingly, all of the Class I directors of the Board of Directors are to be elected at the Annual Meeting. The nominees for election by the stockholders to these four positions are Kenneth Levy, Samuel Rubinovitz, Jon D. Tompkins and Lida Urbanek. If elected, the nominees will serve as directors until the Company's annual meeting of stockholders in 2002, or until their successors are elected and qualified. If any of the nominees declines to serve or becomes unavailable for any reason, or if a vacancy occurs before the election, the proxies may be voted for such substitute nominees as management may designate. The proxy holders also have been advised that in the event any of the nominees shall not be available for election, a circumstance that is not currently expected, they may vote for the election of substitute nominees in accordance with their judgment. If additional persons are nominated for election as directors, the proxy holders intend to vote all proxies received by them in such a manner as will assure the election of as many of the nominees as possible and, in such event, the specific nominees to be voted for will be determined by the proxy holders.

If a quorum is present and voting, the four nominees for Class I directors receiving the highest number of votes will be elected as Class I directors. Abstentions and shares held by brokers that are not present, but not voted because the brokers were prohibited from exercising discretionary authority, i.e., "broker non-votes," will be counted as present in determining if a quorum is present.

4

The following table sets forth certain information with respect to the Company's Board of Directors.

# <TABLE> <CAPTION>

			DIRECTOR
NAME OF DIRECTOR	AGE	POSITION	SINCE
<\$>	<c></c>	<c></c>	<c></c>
Kenneth Levy	56	Chairman of the Board	1975
Kenneth L. Schroeder	53	President and Chief Executive Officer	1991
James W. Bagley	60	Director	1997
Edward W. Barnholt	56	Director	1995
Leo J. Chamberlain	69	Director	1982
Richard J. Elkus, Jr	64	Director	1997
Dean O. Morton	67	Director	1997
Samuel Rubinovitz	69	Director	1990
Dag Tellefsen	57	Director	1978
Jon D. Tompkins	59	Director	1997
Lida Urbanek	56	Director	1997

  |  |  |Kenneth Levy is a co-founder of KLA-Tencor and since July 1, 1999 has been Chairman of the Board and a Director. From July 1, 1998 until June 30, 1999, he was Chief Executive Officer and a Director. From April 30, 1997 until June 30,

1998 he was Chairman of the Board and a Director. From 1975 until April 30, 1997 he was Chairman of the Board, Chief Executive Officer and a Director. He currently serves on the boards of directors of Ultratech Stepper, Inc., SpeedFam-IPEC, Inc. and is a Director Emeritus of SEMI, an industry trade association.

Kenneth L. Schroeder has been President and Chief Executive Officer and a Director of KLA-Tencor since July 1, 1999. From November 1991 until June 30, 1999, he was President and Chief Operating Officer and a Director. Mr. Schroeder has been with the Company for 16 years and has held a variety of senior management positions. He currently serves on the board of directors of GaSonics International and SEMI.

James W. Bagley has been a Director of the Company since April 1997. He was a Director of Tencor from June 1993 until April 1997. He has been Chief Executive Officer and a Director of Lam Research Corporation since August 1997. From May 1996 until August 1997 he was Chairman of the Board and Chief Executive Officer of OnTrak Systems, Inc. until its merger with Lam Research Corporation in August 1997. From January 1994 until October 1995 he was Vice Chairman and Chief Operating Officer of Applied Materials, Inc., and Vice Chairman from November 1995 until May 1996. From December 1987 until December 1993, Mr. Bagley was President and Chief Operating Officer of Applied Materials, Inc., Kulicke & Soffa Industries, Inc., Micron Technology, Inc., and SEMI/SEMATECH.

Edward W. Barnholt has been a Director of the Company since 1995. Mr. Barnholt joined the Hewlett Packard Company in December 1966. From 1990 to 1997, he was the General Manager of the Test and Measurement Organization and from February 1998 to March 1999 he was the General Manager of the Measurement Organization. Mr. Barnholt was elected a Vice President of the Hewlett Packard Company in July 1988, a Senior Vice President in November 1993 and an Executive Vice President in November 1996. Since May 1999, Mr. Barnholt has been President and Chief Executive Officer of Agilent Technologies, Inc.

Leo J. Chamberlain has been a Director of the Company since 1982. He is a private investor.

Richard J. Elkus, Jr. has been a Director of the Company since April 1997. He was Executive Vice President and Vice Chairman of the board of directors of Tencor from February 1994 until April 1997. He currently serves on the boards of directors of Voyan Technology, SOPRA, Barcelona Design and Lam Research Corporation.

Dean O. Morton has been a Director of the Company since April 1997. From June 1993 until April 1997 he was a Director of Tencor. In October 1992, Mr. Morton retired as Executive Vice President, Chief Operating Officer and a Director of the Hewlett-Packard Company, where he held various positions from 1960 until his retirement. Mr. Morton currently serves as Chairman of the Board of Centigram Communications

5

Corporation and as a member of the boards of directors of ALZA Corporation, The Clorox Company and BEA Systems Inc. Mr. Morton is also a trustee of the Metropolitan Series Fund and State Street Research Funds Group and Portfolios Inc.

Samuel Rubinovitz has been a Director of the Company since 1990. He previously served as a Director from October 1979 to January 1989. He currently serves as Chairman of the Board of LTX Corporation and also serves on the boards of directors of Richardson Electronics, Ltd. and Kronos, Inc.

Dag Tellefsen has been a Director of the Company since 1978. He is the general partner and President and Managing Director of Glenwood Ventures I and II, venture capital funds and the general partner and Managing Director of Vision Capital. He currently serves on the boards of directors of Iwerks Entertainment Corporation and Metorex International.

Jon D. Tompkins has been a Director since April 1997. He was Chairman of the Board from July 1998 to June 30, 1999, when he retired his position as Chairman of the Board. Mr. Tompkins has continued to serve as a Director on the Board. From April 1997 until July 1998 he was Chief Executive Officer and a Director of KLA-Tencor. From April 1991 until April 1997 he was President and Chief Executive Officer of Tencor prior to its merger with KLA. He was a Director of Tencor from 1991 until April 1997 and was appointed Chairman of the board of directors of Tencor in November 1993. He currently serves on the boards of directors of Cymer, Electro Scientific Industries, Credence Systems, Levelite, Logic Vision, and the Community Foundation of Silicon Valley.

Lida Urbanek has been a Director of KLA-Tencor since April 30, 1997. She is a private investor. She was a Director of Tencor from August 1991 until April 30, 1997.

There are no family relationships between or among any directors or executive officers of the Company.

The Board of Directors of the Company held six meetings during the fiscal year ended June 30, 1999. The Board of Directors has an Audit Committee, a Compensation Committee and a Nominating Committee.

The Audit Committee, which consists of Mr. Elkus, Mr. Rubinovitz and Mr. Tellefsen, held three meetings during the last fiscal year. The Audit Committee recommends engagement of the Company's independent accountants, and is primarily responsible for approving the services performed by the Company's independent accountants, and for reviewing and evaluating the Company's accounting principles and its system of internal accounting controls. The Compensation Committee, which consists of Mr. Bagley, Mr. Chamberlain and Mrs. Urbanek, held three meetings during the last fiscal year. The Compensation Committee reviews and approves the Company's executive compensation policy and makes recommendations concerning the Company's employee benefit plans. The Nominating Committee, which consists of Mr. Barnholt, Mr. Levy and Mr. Morton did not hold a meeting during the last fiscal year. A unanimous group of the disinterested members of the board of directors nominated the four Class I directors for election. The Nominating Committee is primarily responsible for identifying and evaluating the qualifications of all candidates for election to the Board of Directors. The Nominating Committee will consider nominations recommended by stockholders. Stockholders wishing to submit nominations must notify the Company of their intent to do so and provide the Company with certain information set forth in the Company's bylaws on or before the date on which stockholder proposals must be received by the Company to be included in the proxy statement for the annual meeting.

During the fiscal year ended June 30, 1999, all incumbent Directors attended at least 75% of the meetings of the Board of Directors and meetings of the committees of the Board on which they served.

#### COMPENSATION OF DIRECTORS

Members of the Board of Directors who are not employees of the Company receive benefits under the 1998 Outside Director Plan ("1998 Director Plan"), which was approved by the stockholders at the 1998 Annual Meeting of Stockholders. Under this plan each non-employee Director ("Outside Director") receives

6

an annual fee of \$15,000 and \$1,000 for each meeting they attend (\$500 if participation is by telephone), plus expenses. Committee members receive \$500 per committee meeting they attend (\$250 if participation is by telephone). Each Outside Director also receives a nonstatutory option to purchase 10,000 shares of Common Stock as of the date on which such director first becomes an Outside Director (the "First Option"). Accordingly, none of the existing directors will be granted a First Option. In addition, each Outside Director is automatically granted a nonstatutory option to purchase an additional 5,000 shares of Common Stock on the date of the subsequent annual meetings on which he or she remains an Outside Director (the "Subsequent Option"). The term of options granted under the 1998 Director Plan may not exceed 10 years. The 1998 Director Plan provides that the exercise price shall be equal to the fair market value of the Common Stock on the date of grant of the option. Options granted under the 1998 Director Plan become exercisable immediately upon the date of grant.

## REQUIRED VOTE

Directors shall be elected by a plurality of the votes of the shares of the Company's Common Stock entitled to vote and represented in person or by proxy at the Annual Meeting. Votes against, votes withheld and broker non-votes have no legal effect on the election of directors because such elections are by a plurality.

MANAGEMENT RECOMMENDS A VOTE FOR EACH OF THE CLASS I NOMINEES LISTED ABOVE.

7

## PROPOSAL TWO

TO RATIFY THE APPOINTMENT OF PRICEWATERHOUSECOOPERS LLP AS THE INDEPENDENT ACCOUNTANTS OF THE COMPANY FOR THE FISCAL YEAR ENDING JUNE 30, 2000.

The Board of Directors has selected PricewaterhouseCoopers LLP, independent accountants, to audit the consolidated financial statements of the Company for its 2000 fiscal year and recommends that the stockholders vote for ratification of such appointment. If there is a negative vote on such ratification, the Board of Directors will reconsider its selection. Representatives of PricewaterhouseCoopers LLP are expected to be present at the Annual Meeting with the opportunity to make a statement if they desire to do so, and are expected to be available to respond to appropriate questions.

THE BOARD OF DIRECTORS RECOMMENDS A VOTE FOR THE RATIFICATION OF THE APPOINTMENT OF PRICEWATERHOUSECOOPERS LLP AS THE INDEPENDENT ACCOUNTANTS OF THE COMPANY FOR THE FISCAL YEAR ENDING JUNE 30, 2000.

#### EXECUTIVE COMPENSATION

The following table shows, as to the person who served as  $\operatorname{Chief}\ \operatorname{Executive}$ Officer during the fiscal year ended June 30, 1999 and each of the five other most highly compensated executive officers whose salary plus bonus exceeded \$100,000, information concerning all reportable compensation awarded to, earned by or paid to each for services to the Company in all capacities during the fiscal year ended June 30, 1999, as well as such compensation for each such individual for the Company's previous two fiscal years.

#### SUMMARY COMPENSATION TABLE

<TABLE> <CAPTION>

LONG-TERM COMPENSATION ANNUAL COMPENSATION PAYOUTS AWARDS -----RESTRICTED SECURITIES
OTHER ANNUAL STOCK UNDERLYING
COMPENSATION AWARD(S) OPTIONS/SARS LTIP NAME AND PRINCIPAL POSITION AS OF SEPTEMBER 20, 1999 YEAR SALARY(\$) BONUS PAYOUTS(\$) (\$)(1) (\$)(2) (#)(3) - ------ ----- ----- ---- -----\_\_\_\_\_ <C> 102,136 62,500 Kenneth Levy(6)... -0-Chairman of the Board 1998 \$467,769 \$262,314 \$ N/A -0- 62,500 1997 \$402,122 \$334,277 \$ N/A -0- 162,500 Kenneth L. Schroeder(7)... 1999 \$445,723 \$420,492 \$ N/A -0- 102,136 President and 1998 \$455,992 \$256,757 \$ N/A -0- 62,500 Chief Executive Officer 1997 \$384,231 \$332,800 \$ N/A -0- 62,500 Jon D. Tompkins(8)... 1999 \$291,478 \$214,797 \$ N/A -0- 50,809 Director 1998 \$467,769 \$262,314 \$ N/A -0- -0- 100,000 Gary E. Dickerson(9)... 1999 \$304,387 \$189,587 \$ N/A -0- 62,882 Chief Operating Officer 1998 \$312,115 \$161,364 \$ N/A -0- 62,882 Chief Operating Officer 1998 \$312,115 \$161,364 \$ N/A -0- 82,500 Robert J. Boehlke... 1999 \$289,892 \$191,133 \$ N/A -0- 82,500 A1 Chief Financial Officer 1997 \$257,908 \$143,587 \$ N/A -0- 33,500 A1 Chief Financial Officer 1997 \$257,908 \$143,587 \$ N/A -0- 73,500 Customer Group 1997 \$256,616 \$133,697 \$ N/A -0- 33,500 Customer Group 1997 \$256,616 \$133,697 \$ N/A -0- 73,500 -0-Chairman of the Board -0--0--0--0--0--0--0--0--0--0--0--0--0--0--0--0-

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NAME AND PRINCIPAL POSITION AS OF SEPTEMBER 20, 1999	ALL OTHER COMPENSATION (\$)(5)
<\$>	<c></c>
Kenneth Levy(6)	\$10,005
Chairman of the Board	\$44,430
	\$72 <b>,</b> 158
Kenneth L. Schroeder(7)	\$ 9,804
President and	\$43 <b>,</b> 545
Chief Executive Officer	\$71 <b>,</b> 452
Jon D. Tompkins(8)	\$ 5 <b>,</b> 977
Director	\$44,430
	\$ 1,500
Gary E. Dickerson(9)	\$ 6,844
Chief Operating Officer	\$29 <b>,</b> 984
	\$50 <b>,</b> 197
Robert J. Boehlke	\$ 6,541
Executive Vice President	\$28,604
and Chief Financial Officer	\$49,911
Arthur P. Schnitzer	\$ 6,761
Executive Vice President,	\$26,494
Customer Group	\$47,842

  |<sup>(1)</sup> The amounts paid during the fiscal year to the named executive officers were less than the lesser of (a) \$50,000 or (b) 10% of the executive officers total reported salary and bonus.

<sup>(2)</sup> The Company has not granted any restricted stock rights.

- (3) The Company has not granted any stock appreciation rights. Fiscal 1999 Stock Option Grants do not reflect the October 1999 Stock Option Repricing. See "Option/SAR Grants" table.
- (4) The Company does not have any Long Term Incentive Plans as that term is defined in the regulations.
- (5) "All Other Compensation" is itemized as follows:
  - For fiscal 1999, Mr. Levy received \$7,129 in cash profit sharing; \$475 in profit sharing was contributed by the Company to the 401(k) Plan; \$1,901 was contributed by the Company to the Excess Profit Stock Plan; \$500 was contributed by the Company as a matching contribution to the 401(k) Plan.
  - For fiscal 1999, Mr. Schroeder received \$6,978 in cash profit sharing; \$475 in profit sharing was contributed by the Company to the 401(k) Plan; \$1,851 was contributed by the Company to the Excess Profit Stock Plan; \$500 was contributed by the Company as a matching contribution to the 401(k) Plan.
  - For fiscal 1999, Mr. Tompkins received \$4,108 in cash profit sharing; \$475 in profit sharing was contributed by the Company to the 401(k) Plan; \$894 was contributed by the Company to the Excess Profit Stock Plan; \$500 was contributed by the Company as a matching contribution to the 401(k) Plan.
  - For fiscal 1999, Mr. Dickerson received \$4,758 in cash profit sharing; \$494 in profit sharing was contributed by the Company to the 401(k) Plan; \$1,092 was contributed by the Company to the

9

Excess Profit Stock Plan; \$500 was contributed by the Company as a matching contribution to the 401(k) Plan.

- For fiscal 1999, Mr. Boehlke received \$4,531 in cash profit sharing; \$519 in profit sharing was contributed by the Company to the 401(k) Plan; \$991 was contributed by the Company to the Excess Profit Stock Plan; \$500 was contributed by the Company as a matching contribution to the 401(k) Plan.
- For fiscal 1999, Mr. Schnitzer received \$4,696 in cash profit sharing; \$518 in profit sharing was contributed by the Company to the 401(k) Plan; \$1,047 was contributed by the Company to the Excess Profit Stock Plan; \$500 was contributed by the Company as a matching contribution to the 401(k) Plan.
- (6) Mr. Levy was named Chairman of the Board effective July 1, 1999. From July 1, 1998 until July 1, 1999, Mr. Levy was Chief Executive Officer. During fiscal 1997, Mr. Levy was Chief Executive Officer until April 30, 1997 when, as a result of the merger of Tencor Instruments ("Tencor") into a wholly-owned subsidiary of the Company (the "Merger"), he became Chairman of the Board of Directors and remained in that position until July 1, 1998.
- (7) Mr. Schroeder was named President and Chief Executive Officer effective July 1, 1999. From 1991 until June 30, 1999, he served as President and Chief Operating Officer.
- (8) Mr. Tompkins retired from his position as Chairman of the Board effective July 1, 1999. He was previously President and Chief Executive Officer of Tencor until April 1997. As a result of the Merger he became Chief Executive Officer of the Company effective April 30, 1997 and remained in that position until July 1, 1998, when he became Chairman of the Board. The compensation described in this Summary Compensation Table reflects certain amounts that were paid during the period prior to the Merger when Tencor was an independent, publicly traded company. Tencor reported its results on a calendar year basis, while the Company reports its results based on a June 30 year end.
- (9) Mr. Dickerson was named Chief Operating Officer effective July 1, 1999. From 1997 until July 1, 1999, Mr. Dickerson served as Executive Vice President of the Customer Group.

10

## STOCK OPTION GRANTS AND EXERCISES

The following tables set forth the stock options granted to the named executive officers under the Company's stock option plans and the options exercised by such named executive officers during the fiscal year ended June 30, 1999.

The Option/SAR Grant Table sets forth hypothetical gains or "option spreads" for the options at the end of their respective ten-year terms, as calculated in accordance with the rules of the Securities and Exchange

Commission. Each gain is based on an arbitrarily assumed annualized rate of compound appreciation of the market price at the date of grant of 5% and 10%from the date the option was granted to the end of the option term. Actual gains, if any, on option exercises are dependent on the future performance of the Company's Common Stock and overall market conditions.

OPTION/SAR(1) GRANTS IN LAST FISCAL YEAR

KLA-TENCOR CORPORATION 1982 STOCK OPTION PLAN(2)

<TABLE> <CAPTION>

> POTENTIAL REALIZABLE VALUE ASSUMED ANNUAL RATES OF STOCK PRICE APPRECIATION FOR

	INDIVIDUAL GRANTS				OPTION TERM		
NAME	OPTIONS/SARS GRANTED(#)	PERCENT OF TOTAL OPTIONS/ SARS GRANTED TO EMPLOYEES IN FISCAL YEAR	EXERCISE OR BASE PRICE (\$/SHARE)	EXPIRATION DATE	5%	10%	
<s></s>	<c></c>	<c></c>	<c></c>	<c></c>	<c></c>	<c></c>	
Kenneth Levy	102,136	1.34%	\$21.2500	8/31/2008	\$1,364,947	\$3,459,042	
	110,364	1.45%	\$33.9375	10/23/2008	\$2,355,511	\$5 <b>,</b> 969 <b>,</b> 328	
Kenneth L. Schroeder	102,136	1.34%	\$21.2500	8/31/2008	\$1,364,947	\$3,459,042	
	110,364	1.45%	\$33.9375	10/23/2008	\$2,355,511	\$5,969,328	
Jon D. Tompkins	50,809	0.67%	\$21.2500	8/31/2008	\$ 679,012	\$1,720,750	
-	74,191	0.97%	\$33.9375	10/23/2008	\$1,583,467	\$4,012,816	
Gary E. Dickerson	62,882	0.82%	\$21.2500	8/31/2008	\$ 840,355	\$2,129,627	
-	69,618	0.92%	\$33.9375	10/23/2008	\$1,485,864	\$3,765,473	
Robert J. Boehlke	54,435	0.71%	\$21.2500	8/31/2008	\$ 727,470	\$1,843,552	
	49,065	0.64%	\$33.9375	10/23/2008	\$1,047,200	\$2,653,810	
Arthur P. Schnitzer	54,435	0.71%	\$21.2500	8/31/2008	\$ 727,470	\$1,843,552	
	49,065	0.64%	\$33.9375	10/23/2008	\$1,047,200	\$2,653,810	

</TABLE>

- (1) The Company has not granted any stock appreciation rights.
- (2) The material terms of the grants (other than those set forth in the table) are: (a) The exercise price of the options is the fair market value of Common Stock as of the date of grant; (b) The options vest on a four year schedule with 25% after one year and the remaining option shares vesting 1/36 per month for the remainder of the vesting term; (c) To the extent unexercised, the options lapse after ten years; (d) The options are non-transferrable and are only exercisable during the period of employment of the optionee and for 30 days following termination of employment, subject to limited exceptions in the cases of certain terminations, death or permanent disability of the optionee.

AGGREGATED OPTION/SAR EXERCISES IN LAST FISCAL YEAR AND YEAR-END VALUE(1)

KLA-TENCOR CORPORATION 1982 STOCK OPTION PLAN

<TABLE> <CAPTION>

TOTAL VALUE(2) OF TOTAL NUMBER OF UNEXERCISED, IN-THE-MONEY UNEXERCISED OPTIONS HELD OPTIONS HELD AT FISCAL NUMBER OF SHARES AT FISCAL YEAR END YEAR END NAME -----<C> <C> <C> <C> <C> <C> <S> 304,833 258,167 Kenneth Levy..... 40,000 \$2,012,500 \$16,552,652 \$9,857,167 Kenneth L. Schroeder..... 20,000 \$1,121,250

Jon D. Tompkins... -0- -0
Gary E. Dickerson... -0- -0
Robert J. Boehlke... 40,000 \$1,832,239 \$1,832,239 Arthur P. -0--0- 183,915 128,501 \$ 9.887.300 \$5,039,642 Schnitzer.... </TABLE>

- (1) The Company has not granted any stock appreciation rights.
- (2) Total value of vested options based on fair market value of Company's Common Stock of \$64.88 per share as of June 30, 1999.

## TENCOR INSTRUMENTS 1993 EQUITY INCENTIVE PLAN

<TABLE>

	NUMBER OF SHARES ACOUIRED VALUE		UNEXERCISED	NUMBER OF OPTIONS HELD L YEAR END	UNEXERCISED, IN-THE-MONEY OPTIONS HELD AT FISCAL YEAR END	
NAME	ON EXERCISE	REALIZED	EXERCISABLE	UNEXERCISABLE	EXERCISABLE	UNEXERCISABLE
<s></s>	<c></c>	<c></c>	<c></c>	<c></c>	<c></c>	<c></c>
Kenneth Levy	-0-	-0-	-0-	-0-	-0-	-0-
Kenneth L. Schroeder	-0-	-0-	-0-	-0-	-0-	-0-
Jon D. Tompkins	75 <b>,</b> 368	\$2,399,548	38,581	18,001	\$1,822,952	\$850,547
Gary E. Dickerson	-0-	-0-	-0-	-0-	-0-	-0-
Robert J. Boehlke	-0-	-0-	-0-	-0-	-0-	-0-
Arthur P. Schnitzer						

 -0- | -0- | -0- | -0- | -0- | -0- |TOTAL VALUE(2) OF

LENGTH

ORIGINAL

- -----

- (1) The Company has not granted any stock appreciation rights.
- (2) Total value of vested options based on fair market value of Company's Common Stock of \$64.88 per share as of June 30, 1999.
- (3) Messrs. Levy, Schroeder, Boehlke, Dickerson and Schnitzer have been executive officers of the Company and accordingly have never received options under the Tencor Instruments 1993 Equity Incentive Plan. Accordingly, the information under this table is inapplicable to them.

12

## TEN-YEAR OPTION REPRICINGS TABLE

On August 31, 1998, employees of the Company, excluding certain executive officers, holding options with exercise prices of \$28.00 or higher were granted the opportunity to surrender those options and receive new options having an exercise price of \$21.25, the fair market value of the Company's stock on that date, and begin a new vesting schedule. In addition, on October 31, 1998, certain executive officers were granted the opportunity to surrender options and receive a reduced number of options having an exercise price of \$33.94, the market price on that date, and begin a new vesting schedule. The following table provides certain information regarding the repricing of options held by any person who served as an executive officer of the Company during the last 10 completed fiscal years.

<TABLE> <CAPTION>

WEIGHTED

OF

days

OPTION SECURITIES PRICE TERM UNDERLYING OF STOCK WEIGHTED REMAINING ΑТ NAME AND POSITION, OPTIONS AT TIME OF EXERCISE PRICE NEW DATE OF EXECUTIVE OFFICERS DURING REPRICED OR REPRICING AT TIME OF EXERCISE REPRICING OR FISCAL YEAR 1999 AMENDED REPRICING PRICE AMENDMENT DATE (\$) \_\_\_\_\_ \_\_\_\_\_ ----------<C> <C> <C> <S> <C> Kenneth Levy...... 10/26/1990 228,700 \$ 3.5000 \$ 5.8667 \$ 3.5000 7 years 51 davs Chairman of the Board 10/23/1998 110,364 \$33.9375 \$51.8672 \$33.9375 8 years 231 davs Kenneth L. Schroeder..... 8/14/1992 300,000 \$ 3.7500 \$ 4.8125 \$ 3.7500 9 years 82 10/23/1998 110,364 \$33.9375 \$50.6779 \$33.9375 8 years 224 President and Chief Executive Officer 69,618 \$33.9375 \$50.7698 \$33.9375 8 years 102 days Chief Operating Officer \$44.5000 \$33.9375 8 years 189 Director \$ 5.1250 8 years 290 Robert J. Boehlke...... 8/2/1989 66,306 \$ 5.1250 \$ 5.8824

NUMBER OF

MARKET

Executive Vice President and	10/26/1990	195,406	\$ 3.5000	\$ 6.0025	\$ 3.5000	3 years 300
days	10/02/1000	40.065	422 0275	AE1 0010	622 0275	0 001
Chief Financial Officer days	10/23/1998	49,065	\$33.9375	\$51.8210	\$33.9375	8 years 231
Arthur P. Schnitzer	10/26/1990	44,490	\$ 3.5000	\$ 5.5268	\$ 3.5000	7 years 139
days						
Executive Vice President,	10/23/1998	49,065	\$33.9375	\$51.8210	\$33.9375	8 years 231
days						
Customer Group	10/02/1000	26 745	622 0275	ć42 0014	622 0275	0 170
Edward C. Gradydays	10/23/1990	26,745	\$33.9375	\$43.8914	\$33.9375	8 years 178
Executive Vice President, Wafer						
Inspection Group						
Samuel A. Harrell	10/23/1998	57,338	\$33.9375	\$44.9110	\$33.9375	8 years 178
days	10, 20, 1330	0.,000	400.3070	711.3110	400.3070	0 10010 170
Senior Vice President, Strategic						
Business Development						
Neil Richardson	10/23/1998	46,184	\$33.9375	\$50.6779	\$33.9375	8 years 224
days						
Executive Vice President, E-Beam						
Inspection and Metrology Group						
Frederick A. Ball	8/31/1998	20,000	\$21.2500	\$44.5000	\$21.2500	8 years 242
days						
Vice President,						
Mergers and Acquisitions						
FORMER EXECUTIVE OFFICERS	10/06/1000	E 004	å 2 F000	A F COFO	ć 2 F000	0 000
Robert Anderson	10/26/1990	5,904	\$ 3.5000	\$ 5.6250	\$ 3.5000	8 years 266
days Former Chairman of the Board						
Patrick H. Lamey, Jr	8/2/1989	48,084	\$ 5.1250	\$ 8.1768	\$ 5.1250	8 years 255
days	0/2/1909	40,004	Ÿ J.1250	9 0.1700	Ÿ J.1230	o years 200
Former Vice President, General	10/26/1990	99,784	\$ 3.5000	\$ 5.4498	\$ 3.5000	8 years 42
days	,,	,	,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	. 1
Manager KLASIC Division						
Dannie K. Martz	8/2/1989	26,400	\$ 5.1250	\$ 5.9394	\$ 5.1250	9 years 13
days						
Former Vice President,	10/26/1990	56,800	\$ 3.5000	\$ 5.3955	\$ 3.5000	8 years 255
days						
General Manager ATS Division						
John W. Mathews	10/26/1990	116,506	\$ 3.5000	\$ 5.8244	\$ 3.5000	6 years 273
days						
Former Vice President,						
General Manager Technology Division						
Michael D. McCarver	10/26/1000	94,000	\$ 3.5000	\$ 5.8999	\$ 3.5000	7 years 147
days	10/26/1990	94,000	\$ 3.3000	\$ 3.0999	\$ 3.3000	/ years 14/
Former Vice President,						
General Manager RAPID Division						

  |  |  |  |  |  ||  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
13

<TABLE> <CAPTION>

WEIGHTED	

						LENGTH
OF		NUMBER OF	MARKET			ORIGINAL
OPTION		SECURITIES UNDERLYING	PRICE OF STOCK	WEIGHTED		TERM REMAINING
AT  NAME AND POSITION,  EXECUTIVE OFFICERS DURING  OR		OPTIONS REPRICED OR	AT TIME OF REPRICING	EXERCISE PRICE AT TIME OF	NEW EXERCISE	DATE OF REPRICING
FISCAL YEAR 1999	DATE	AMENDED	(\$)	REPRICING	PRICE	AMENDMENT
<s></s>	<c></c>	<c></c>	<c></c>	<c></c>	<c></c>	<c></c>
Paul Sandland	10/26/1990	132,618	\$ 3.5000	\$ 5.8764	\$ 3.5000	7 years 96
days Former Vice President, Chief Technical Officer						
William Turner	10/26/1990	22,368	\$ 3.5000	\$ 5.3497	\$ 3.5000	7 years 297
days Former Vice President, Controller						
Dan Vilenski	10/26/1990	20,600	\$ 3.5000	\$ 5.6371	\$ 3.5000	8 years 190
days Former Vice President, General Manager KLA Israel		·				-

</TABLE>

REPORT OF THE COMPENSATION COMMITTEE ON EXECUTIVE COMPENSATION

The Committee is comprised of three independent, non-employee members of the Board of Directors, none of whom have interlocking relationships as defined by the Securities and Exchange Commission. The Committee sets and administers the policies governing annual compensation of executive officers, considers their performance and makes recommendations regarding their cash compensation and stock options to the full Board of Directors. The Committee periodically reviews its approach to executive compensation and makes changes as appropriate.

## Compensation Philosophy

The Committee of the Board of Directors establishes the overall executive compensation strategies of the Company and approves compensation elements for the Chairman of the Board, the Chief Executive Officer and other executive officers. The goals of the Company's compensation policy are to attract, retain and reward executive officers who contribute to the overall success of the Company by offering compensation that is competitive in the industry, to motivate executive officers to achieve the Company's business objectives and to align the interests of executive officers with the long term interests of stockholders. The Company currently uses salary, management incentive plans and stock options to meet these goals.

The compensation philosophy of the Committee is to provide a comprehensive compensation package for each executive officer that is well suited to support accomplishment of the Company's business strategies, objectives and initiatives. For incentive-based compensation, the Committee considers the desirability of structuring such compensation arrangements so as to qualify for deductibility under Section 162(m) of the Internal Revenue Code. As the Committee applies this compensation philosophy in determining appropriate executive compensation levels and other compensation factors, the Committee reaches its decisions with a view towards the Company's overall financial performance.

## Executive Officer Compensation

The Committee's approach is based upon its belief that a substantial portion of aggregate annual compensation for executive officers should be contingent upon the Company's performance and an individual's contribution to the Company's success. In addition, the Committee strives to align the interests of the Company's executive officers with the long-term interests of stockholders through stock option grants that can result in ownership of the Company's Common Stock. The Committee endeavors to structure each executive officer's overall compensation package to be consistent with this approach and to enable the Company to attract, retain and reward personnel who contribute to the success of the Company.

The Company provides its executive officers with a compensation package consisting of base salary, variable incentive pay and participation in benefit plans generally available to other employees. The Committee considers market information from published survey data provided to the Committee by the

14

Company's human resources staff. The market data consists primarily of base salary and total cash compensation rates, as well as incentive bonus and stock programs of other companies considered by the Committee to be peers in the Company's industry.

For the Company's previous fiscal year, the Committee reviewed and recommended a compensation structure which had as an important component the substantial economic and business challenges in the semiconductor and semiconductor capital equipment industries worldwide.

Base Salary. Salaries for executive officers are set with reference to salaries for comparable positions among other companies in the Company's industry or in industries that employ individuals of similar education and background to the executive officers based on data provided by the Company's human resources staff.

Management Incentive Plan. Each year since fiscal 1979, the Company has adopted a management incentive plan (the "Incentive Plan") which provides for payments to officers and key employees based on the financial performance of the Company or the relevant business unit, and on the achievement of the person's individual performance objectives. The Incentive Plan is approved by the Committee and submitted to the Board of Directors for ratification. The Incentive Plan sets goals for profitability, achievement of measurable objectives aimed at strategic corporate goals and achievement of objectives relating to managing the ratio of assets to sales.

Outstanding Corporate Performance Executive Bonus Plan. The Company continued to utilize its incentive plan (the "Outstanding Corporate Performance Plan") which allows for an additional bonus in years when the Company achieves certain levels of profitability and growth. For those executive officers who do not manage operating divisions, the matrix is based on the Company's pre-tax

margin and the growth of the Company compared to a peer group. The target percentage for the Outstanding Corporate Performance Plan is the same target percentage as utilized in determining the Incentive Plan bonus. For those executive officers who manage operating divisions, the matrix is based on certain specified growth objectives for that division, the Company's net operating margin and a comparison of the Company's aggregate revenues over the prior 36 months against a target group of public U.S. companies over the same period.

Half of each annual amount under the Outstanding Corporate Performance Plan is payable at the end the fiscal year. The other of half of each annual amount payable under the plan is contributed by the Company to the Executive Deferred Savings Plan (the "EDSP") that vests over a one year period. At the end of the one year period, the executive officer has the choice of taking a cash payment or leaving the contribution in the EDSP. If the executive officer leaves during that one year period, the contribution by the Company is forfeited. Although the executive officer is eligible to participate in both the Company's profit sharing plan and the Outstanding Corporate Performance Plan, any amounts contributed by the Company pursuant to the Outstanding Corporate Performance Plan will be reduced by the amount of profit sharing paid during the fiscal year.

Process Module Control Solutions Program (the "PMCS Program"). The Company has initiated a new incentive program for fiscal year 2000. The PMCS Program is intended to encourage teamwork throughout the Company. Each participant in the PMCS Program shall receive a stock option upon the achievement of certain revenue goals from customers set forth on a list of potential capital equipment investment opportunities in the semiconductor industry. The percentage of achievement of the revenue goal determines the number of stock options received, which in turn is dependent upon the salary and performance level of the participant. The stock option grants are made at the end of the fiscal year, after the determination of the level of goal achieved.

Long-term Incentives. Longer term incentives are provided through the Stock Option Plan and the Excess Profit Stock Plan, each of which reward executive officers through the growth in value of the Company's Common Stock. The Committee believes that employee equity ownership is highly motivating, provides a major incentive for employees to build stockholder value and aligns the interests of employees with those of stockholders.

15

Grants of stock options to executive officers are based upon each executive officer's responsibilities, historical and expected contributions to the Company, and the executive officer's existing stock ownership and previous option grants, with primary weight given to the executive officer's relative rank and responsibilities. Stock options are granted at market price on the date of grant and provide value to the executive officers only when the price of the Company's Common Stock increases over the exercise price.

In August, 1998, following a sharp, sustained drop in the price of the Company's Common Stock, the Committee became concerned about the retention and continued motivation of employees holding "under-water" stock options, with exercise prices higher and, in many cases, significantly higher than market levels. After reviewing the matter, the Committee unanimously recommended to the Board of Directors that the Company reprice stock options on August 31, 1998. Employees of the Company, excluding certain executive officers, holding options with exercise prices of \$28.00 or higher were offered the opportunity to surrender those options and receive new options having an exercise price of \$21.25, the fair market value of the Company's stock on that date, with a new vesting schedule from the date of grant. In addition, the Committee also realized that the Company was at a competitive disadvantage for retention of certain of its executive officers holding options with exercise prices in excess of the then-current market levels and on October 31, 1998, those executive officers were offered the opportunity to surrender options and receive a reduced number of options having an exercise price of \$33.94, the market price on that date. These repriced options began a new vesting schedule from the date of grant. All independent members of the Board of Directors approved the repricing offers. Kenneth Levy, the Company's Chief Executive Officer, Kenneth Schroeder, the Company's President and Chief Operating Officer, and Jon Tompkins, the Company's Chairman of the Board, abstained from the vote. The offer to reprice stock options was not made to the Company's non-employee directors, all of whom hold stock options under the Company's Outside Director Plan. A table showing the options held by executive officers who elected to accept the repricing offer is set forth under "Executive Compensation and Other Matters -- Ten-Year Option Repricings Table."

In recommending the option repricing, the Committee and the Board of Directors were primarily motivated by a desire to preserve the Company's talented employee base in a highly competitive employment environment during a period when falling stock prices had substantially eliminated the retention value of the Company's equity incentives. Recognizing the variety of alternative opportunities and intense competition for employees and executives from both established companies and emerging high-technology companies, the Board of Directors concluded that repricing under-water options was in the best interest

Approval of Fiscal Year 2000 Bonus Plan, Outstanding Corporate Performance Plan and the PMCS Program

The Committee approved a fiscal year 2000 bonus plan incentive formula which is based on two components of equal weight. The first component is performance against specified financial objectives and the second is achievement of non-financial strategic objectives. The bonuses for the Chairman of the Board, the Chief Executive Officer, the Chief Operating Officer and the Chief Financial Officer are based on the performance of the managers reporting to the executive officers. The Committee also approved the fiscal year Outstanding Corporate Performance Plan which is based on a matrix of the Company's net operating margin and certain growth objectives. The Plan does not require any contributions by the Company until the Company achieves a Pre-Tax Margin Factor of 14%. The Pre-Tax Margin Factor is calculated by taking the pre-tax, pre-profit sharing income, excluding non-recurring charges, and dividing it by total revenue. Under the PMCS Program, certain of the stock options which would be granted under Stock Option Plan will be dependent upon the achievement of certain revenue targets from specified customers.

## Chief Executive Officer Compensation

For fiscal year 1999, Kenneth Levy served as Chief Executive Officer. In setting Mr. Levy's compensation for fiscal year 1999, the Committee considered the Company's revenue and profit in the prior fiscal year, the Company's market capitalization and data from comparable companies supplied by the Company's compensation consultants. During fiscal year 1999, due to the downturn in the semiconductor industry, the executive officers of the Company, including Mr. Levy, voluntarily decreased their base salaries by 10% for six

months. As a result of this decrease, Mr. Levy was paid \$456,097 in salary for fiscal 1999. Mr. Levy's target bonus for fiscal 1999 was 100% of his annual base salary. The Company's results during this industry downturn, coupled with the formula approved by the Committee and the Board, resulted in a bonus to Mr. Levy of \$429,597, or 94% of his reduced salary.

MEMBERS OF THE COMPENSATION COMMITTEE

James W. Bagley Leo J. Chamberlain Lida Urbanek

## COMPENSATION COMMITTEE INTERLOCKS AND INSIDER PARTICIPATION

The members of the Compensation Committee are set forth in the preceding section. There are no members of the Compensation Committee who were officers or employees of the Company or any of its subsidiaries during the fiscal year, formerly officers of the Company, or had any relationship otherwise requiring disclosure hereunder.

17

## PERFORMANCE GRAPH

The stock price performance shown on the following graph is not necessarily indicative of future price performance.

COMPARISON OF FIVE YEAR CUMULATIVE TOTAL RETURN AMONG KLA-TENCOR
CORPORATION, THE NASDAQ -- US INDEX AND THE HAMBRECHT & QUIST
PERFORMANCE GRAPH
TECHNOLOGY INDEX\*

<TABLE>

HAMBRECHT & QUIST

TECHNOLOGY INDEX	KLA-TENCOR CORPORATION	THE NASDAQ-US INDEX		
THOMACHOOT TABLE				
<\$>	<c></c>	<c></c>	<c></c>	
1994	100.00	100.00		
100.00				
1995	206.00	133.48		
176.90				
1996	124.00	171.38		
206.74				
1997	260.00	208.42		
270.00				
1998	147.67	274.43		
342.02				
1999	346.00	392.51		
553.56				

- -----

\* Assumes \$100 invested on June 30, 1994. The Company's fiscal year end is June  $_{30}$ 

## CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS

In connection with the merger between KLA Instruments Corporation and Tencor Instruments (effective April 30, 1997) the Company entered into identical employment arrangements, subsequently amended, with Kenneth Levy, Jon D. Tompkins and Kenneth L. Schroeder, all executive officers of the Company. The arrangements, as amended, provide that certain benefits would be paid if certain events took place after April 30, 1997. The purpose of these arrangements is to retain the services of Messrs. Levy, Tompkins and Schroeder to ensure the continued smooth transition associated with the Merger. The terms of those arrangements provide that if an individual were to leave the Company after April 30, 1998, subject to releasing the Company from all claims, and in connection with working part-time for 36 months, he will receive (i) his base salary for the first 24 months of part-time employment, (ii) a mutually agreeable level of compensation per month for the final 12 months of part-time employment, (iii) an annual bonus (based on an achievement of 100% of bonus objectives) in the fiscal year of his transition to part-time employment, (iv) a bonus paid in the fiscal year following the payment of the annual bonus above, (based on achievement of 100% of his individual bonus objectives) and (v) a pro-rated bonus for the fiscal year in which part-time employment ended. During the periods of part-time employment, all options to exercise stock of the Company, which were granted more than 12 months prior to the termination of full-time employment will continue to vest. The same

18

benefits shall be payable in the event the Company terminates his employment without cause. If he is terminated for cause (defined as (i) gross negligence or willful misconduct in connection with the performance of duties, (ii) conviction of or plea of nolo contendere to any felony, or (iii) the embezzlement or misappropriation of Company property) then he will receive a lump-sum payment equal to 25% of his base salary.

During the last fiscal year, the Company entered into a Separation Agreement (the "Agreement") with Graham J. Siddall, an executive officer of the Company at the time the Agreement was executed. Mr. Siddall is no longer an executive officer of the Company. Pursuant to the Agreement, Mr. Siddall shall be a part-time employee of the Company until June 30, 2001 and is entitled to receive bonuses as long as he does not work with another corporation. In addition, Mr. Siddall's options granted prior to April 30, 1997 will continue to vest during the part-time employment period provided that he does not work for one or more of a defined set of competitors of the Company.

COMPLIANCE WITH SECTION 16(A) OF THE SECURITIES EXCHANGE ACT OF 1934

Section 16(a) of the Exchange Act requires the Company's executive officers, directors, and persons who own more than ten percent of a registered class of the Company's equity securities to file reports of ownership and changes in ownership with the SEC. Executive officers, directors and greater than ten percent stockholders are required by SEC regulations to furnish the Company with copies of all Section 16(a) forms they file. Frederick A. Ball, an executive officer of the Company filed a Form 4 for the month ending November 10, 1998, three days after the due date.

## OTHER MATTERS

The Company knows of no other matters to be submitted to the stockholders at the Annual Meeting. If any other matters properly come before the Annual Meeting, it is the intention of the persons named in the enclosed form of Proxy to vote the shares they represent as the Board of Directors may recommend.

THE BOARD OF DIRECTORS

October 15, 1999

19

729-PS-99

DETACH HERE

PROXY

KLA-TENCOR CORPORATION

PROXY FOR 1999 ANNUAL MEETING OF STOCKHOLDERS

THIS PROXY IS SOLICITED ON BEHALF OF THE BOARD OF DIRECTORS

The undersigned, revoking all prior proxies, hereby appoints Kenneth Levy and Robert J. Boehlke, and each of them, as Proxies with full power of

substitution, to represent and vote as designated in this proxy any and all shares of the common stock of KLA-Tencor Corporation (the "Company"), held or owned by or standing in the name of the undersigned on the Company's books on September 20, 1999, at the Annual Meeting of Stockholders of the Company to be held at the Company's offices at One Technology Drive, Milpitas, California 95035, at 11:00 a.m. local time on Tuesday, November 16, 1999, and any continuation or adjournment thereof, with all powers the undersigned would possess if personally present at the meeting.

The undersigned hereby directs and authorizes said Proxies and each of them, or their substitute or substitutes, to vote as specified with respect to the proposals listed on the reverse side, or, if no specification is made, to vote in favor thereof.

The undersigned hereby further confers upon said Proxies, and each of them, or their substitute or substitutes, discretionary authority to vote with respect to all other matters that may properly come before the meeting or any continuation or adjournment thereof.

The undersigned hereby acknowledges receipt of: (a) Notice of Annual Meeting of Stockholders of the Company, (b) accompanying Proxy Statement, and (c) Annual Report to Stockholders for the year ending June 30, 1999.

SEE REVERSE CONTINUED AND TO BE SIGNED ON REVERSE SIDE SEE REVERSE SIDE SIDE

VOTE BY TELEPHONE

VOTE BY INTERNET

Proxy Card

Call Toll-Free on a Touch-Tone Phone 1-877-PRX-VOTE (1-877-779-8683).

Follow these four easy steps:

Follow these four easy steps:

1. Read the accompanying Proxy

Statement/Prospectus and

2. Call the toll-free number

above your name.

http://www.eproxyvote.com/klac

3. Enter your 14-digit Voter Control

4. Follow the instructions provided.

Number located on your Proxy Card

- 1. Read the accompanying Proxy Statement/Prospectus and Proxy Card
- 2. Call the toll-free number 1-877-PRX VOTE (1-877-779-8683). For shareholders residing outside the United States call collect on
- 3. Enter your 14-digit Voter Control

a touch tone phone 1-201-536-8073

- Number located on your Proxy Card above your name.
- 4. Follow the recorded instructions.

YOUR VOTE IS IMPORTANT! Call 1-877-PRX-VOTE anytime! YOUR VOTE IS IMPORTANT! Go to http://www.eproxyvote.com/klac anytime!

DO NOT RETURN YOUR PROXY CARD IF YOU ARE VOTING BY TELEPHONE OR INTERNET

DETACH HERE

Please mark votes as in this example.

THIS PROXY IS SOLICITED ON BEHALF OF THE BOARD OF DIRECTORS OF THE COMPANY, THE BOARD OF DIRECTORS RECOMMENDS A VOTE FOR THE NOMINEES FOR DIRECTOR AND FOR PROPOSAL 2.

To elect the Class I directors to serve for a three year term and until their successors are elected.

NOMINEES: (01) Kenneth Levy, (02) Samuel Rubinovitz, (03) Jon D. Tompkins and (04) Lida Urbanek

> WITHHELD FOR [ ]

For all nominees except as noted above

To ratify the appointment of PricewaterhouseCoopers LLP as independent accountants of the Company for the fiscal year ending June 30, 2000.

> FOR AGAINST ABSTAIN [ ] [ ] [ ]

In their discretion, the proxy holders are authorized to vote on all such other

MARK HERE IF YOU PLAN T	O ATTEND THE MEET	ING [	]	
MARK HERE FOR ADDRESS C	CHANGE AND NOTE AT	LEFT [	]	
Please sign exactly as return this Proxy promp address before returning should so indicate. If property, both should so	otly in the reply of this Proxy. Per shares are held by	envelope sons sig	provided. Pleas ning in a fiduci	se correct your lary capacity
Signature:	Date:	Signatu	re:	Date:

matters as may properly come before the meeting or any adjournment thereof.