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

SCHEDULE 14A

Proxy Statement Pursuant to Section 14(a) of the Securities Exchange Act of 1934 (Amendment No. ___)

Filed	d by the	Registrant ⊠	Filed by a Party other than the Registrant □	
Chec	ck the ap	ppropriate box:		
	Prelii	minary Proxy Statement		
	Conf	fidential, for Use of the Cor	nmission Only (as permitted by Rule 14a-6(e)(2))	
	Defin	nitive Proxy Statement		
X	Defin	nitive Additional Materials		
	Solic	eiting Material Pursuant to §2	.40.14a-12	
			KLA-TENCOR CORPORATION (Name of Registrant as Specified In Its Charter)	
			(Name of Person(s) Filing Proxy Statement, if other than the Registrant)	
Payn	nent of	Filing Fee (Check the approp	priate box):	
X	No fe	ee required.		
	Fee computed on table below per Exchange Act Rules 14a-6(i)(1) and 0-11.			
	(1)	Title of each class of secur	rities to which the transaction applies:	
	(2)	Aggregate number of secu	urities to which the transaction applies:	
	(3)	Per unit price or other und and state how it was determ	erlying value of the transaction computed pursuant to Exchange Act Rule 0-11 (set forth the amount on which the filing fee is calculated mined):	
	(4)	Proposed maximum aggre	gate value of the transaction:	
	(5)	Total fee paid:		
	Fee p	oaid previously with prelimin	nary materials.	
	Check box if any part of the fee is offset as provided by Exchange Act Rule 0-11(a)(2) and identify the filing for which the offsetting fee was paid previously. Identify previous filing by registration statement number, or the Form or Schedule and the date of its filing.			
	(1)	Amount Previously Paid:		
	(2)	Form, Schedule or Registr	ration Statement No.:	

(3)	Filing Party:
(4)	Date Filed:



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IMPORTANT ANNUAL STOCKHOLDERS' MEETING INFORMATION — YOUR VOTE COUNTS!

Stockholder Meeting Notice



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Important Notice Regarding the Availability of Proxy Materials for the KLA-Tencor Corporation Stockholder Meeting to be Held on November 4, 2009

Under new Securities and Exchange Commission rules, you are receiving this notice that the proxy materials for the annual stockholders' meeting are available on the Internet. Follow the instructions below to view the materials and vote online or request a copy. The items to be voted on and location of the annual meeting are on the reverse side. Your vote is important!

This communication presents only an overview of the more complete proxy materials that are available to you on the Internet. We encourage you to access and review all of the important information contained in the proxy materials before voting. The proxy statement and annual report to stockholders are available at:

www.envisionreports.com/klac



Easy Online Access — A Convenient Way to View Proxy Materials and Vote

When you go online to view materials, you can also vote your shares.

Step 1: Go to www.envisionreports.com/klac to view the materials.

Step 2: Click on Cast Your Vote or Request Materials.

Step 3: Follow the instructions on the screen to log in.

Step 4: Make your selection as instructed on each screen to select delivery preferences and vote.

When you go online, you can also help the environment by consenting to receive electronic delivery of future materials.



Obtaining a Copy of the Proxy Materials – If you want to receive a paper or e-mail copy of these documents, you must request one. There is no charge to you for requesting a copy. Please make your request for a copy as instructed on the reverse side on or before October 25, 2009 to facilitate timely delivery.



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Stockholder Meeting Notice

KLA-Tencor Corporation's Annual Meeting of Stockholders will be held on November 4, 2009 in Multipurpose Rooms East and West in Building Three of the Company's Milpitas facility, located at Three Technology Drive, Milpitas, California 95035, at 1:00 p.m. Pacific Standard Time.

Proposals to be voted on at the meeting are listed below along with the Board of Directors' recommendations

The Board of Directors recommends a vote FOR each of the Class II Director Nominees (Proposal 1) and a vote FOR Proposals 2-4:

- To elect as Class II Directors the four candidates nominated by the Company's Board of Directors to each serve for a three-year term, each until his successor is duly elected:
 - 01 Robert P. Akins, 02 Robert T. Bond, 03 Kiran M. Patel, 04 David C. Wang
- To approve the amendment and restatement of the Company's 2004 Equity Incentive Plan (the "2004 Equity Plan") to increase the number of shares reserved for issuance under the 2004 Equity Plan by 11,000,000 shares and reapprove the material terms of the 2004 Equity Plan, including the list of corporate performance goals through which certain awards made under the plan may be earned in order to qualify those awards as performancebased compensation for purposes of Section 162(m) of the Internal Revenue Code of 1986 ("Section 162(m)")
- To approve the material terms of the Company's Performance Bonus Plan, including an expansion and reapproval of the list of corporate performance goals to which the payment of cash bonus awards made under the plan may be tied in order to qualify those awards as performancebased compensation for purposes of Section 162(m).
- 4. To ratify the appointment of PricewaterhouseCoopers LLP as the Company's independent registered public accounting firm for the fiscal year ending

In their discretion, the proxy holders are authorized to vote on all such matters as may properly come before the meeting or at any adjournment or postponement thereof.

PLEASE NOTE - YOU CANNOT VOTE BY RETURNING THIS NOTICE. To vote your shares you must vote online or request a paper copy of the proxy materials to receive a proxy card. If you wish to attend and vote at the meeting, please bring this notice with you.

Directions to KLA-Tencor Corporation's 2009 Annual Meeting

From Highway 237 Heading East:

Exit at McCarthy Boulevard. At the stoplight, turn right onto McCarthy Boulevard. At the next intersection, turn right onto Technology Drive. KLA-Tencor is on the right side.

From Highway 237 Heading West: Exit at McCarthy Boulevard. At the stoplight, turn left onto McCarthy Boulevard (this will take you back over the freeway). At the next intersection, turn right onto Technology Drive. KLA-Tencor is on the right side.

Directions to KLA-Tencor Corporation's 2009 annual meeting are available in the proxy statement, which can be viewed at www.envisionreports.com/klac.



Here's how to order a copy of the proxy materials and select a future delivery preference:

Paper copies; Current and future paper delivery requests can be submitted via the telephone. Internet or email options below

Email copies: Current and future email delivery requests must be submitted via the Internet following the instructions below. If you request an email copy of current materials you will receive an email with a link to the materials.

PLEASE NOTE: You must use the numbers in the shaded bar on the reverse side when requesting a set of proxy materials.

- → Internet Go to www.envisionreports.com/klac. Click Cast Your Vote or Request Materials. Follow the instructions to log in and order a paper or email copy of the current meeting materials and submit your preference for email or paper delivery of future meeting materials
- → Telephone Call us free of charge at 1-866-641-4276 using a touch-tone phone and follow the instructions to log in and order a paper copy of the materials by mail for the current meeting. You can also submit a preference to receive a paper copy for future meetings.
- → Email Send email to investorvote@computershare.com with "Proxy Materials KLA-Tencor Corporation" in the subject line. Include in the message your full name and address, plus the three numbers located in the shaded bar on the reverse, and state in the email that you want a paper copy of current meeting materials. You can also state your preference to receive a paper copy for future meetings.

To facilitate timely delivery, all requests for a paper copy of the proxy materials must be received by October 25, 2009.

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