# SECURITIES AND EXCHANGE COMMISSION

#### WASHINGTON, DC 20549

# SCHEDULE 13G/A

(Rule 13d-102)

INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT

TO RULES 13d-1(b), (c), AND (d) AND AMENDMENTS THERE TO FILED

PURSUANT TO RULE 13d-2(b)

( AMENDMENT 4)

# **KLA-Tencor Corporation**

( NAME OF ISSUER )

# COMMON STOCK, \$0.001 par value per share

(Title of Class of Securities)

#### 482480100

(CUSIP Number)

### DECEMBER 31, 2015

(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- X Rule 13d-1 (b)
  - Rule 13d-1 (c)
  - Rule 13d-1 (d)

1.	I.R.S. IDENTIFICATION	_	JPMorgan Chase & Co. BOVE PERSONS (ENTITIES 13-262442	28		
	ONLY)					
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*			(a) (b)		
3.	SEC USE ONLY					
4.	CITIZENSHIP OR P	LACE OF OR	GANIZATION			
	NUMBER OF SHARES	5.	SOLE VOTING POWER	9,477,970		
E	BENEFICIALLY  OWNED BY	6.	SHARED VOTING POWER	208,661		
	EACH REPORTING	7.	SOLE DISPOSITIVE POWER	10,109,576		
	PERSON WITH	8.	SHARED DISPOSITIVE POWER	208,528		
9.	9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 10,318,194					
10.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES					
11.	PERCENT OF CLASS	REPRESENTI	ED BY AMOUNT IN ROW (9)			

Item 1(a).	Name of Issuer:				
	KLA-Tencor Corporation				
Item 1(b).	Address of Issuer's Principal Executive Offices:				
	One Technology Drive				
	Milpitas, California 95035				
Item 2(a).	Name of Person Filing:				
	JPMorgan Chase & Co.				
Item 2(b).	Address of Principal Business Office or, if None, Residence:				
	270 PARK AVE				
	NEW YORK, NY 10017				
Thom 2 (a)	Oiti nanahin				
Item 2(c).	Citizenship Delaware				
	Delawale				
Item 2(d).	. Title of Class of Securities:				
	COMMON STOCK, \$0.001 par value per share				
	Unless otherwise noted, security being reported is common stock				
Item 2(e).	CUSIP Number: 482480100				
Item 3	If this Statement is Filed Pursuant to Rule 13d-1(b), or 13d-2(b)				
	Or (c), Check Whether the Person Filing is a :				
(a)	Broker or dealer registered under Section 15 of the Exchange Act;				
(b)	Bank as defined in Section 3(a)(6) of the Exchange Act;				
(c)	Insurance company as defined in Section 3(a)(19) of the				
	Exchange Act;				
(d)	Investment company registered under Section 8 of the Investment				
	Company Act;				
(e)	An investment adviser in accordance with Rule 13d-1(b)(1)(ii)(E);				
(f)	An employee benefit plan or endowment fund in accordance with				
(~)	Rule 13d-1(b)(1)(ii)(F);				
(g)	X A parent holding company or control person in accordance with Rule 13d-1(b)(1)(ii)(G);				
(h)	A savings association as defined in Section 3(b) of the Federal				
` '	Deposit Insurance Act;				
(i)	A church plan that is excluded from the definition of an				

Investment company under Section 3(c)(14) of the Investment Company act;

Χ

(j) Group, in accordance with Rule 13d-1(b)(1)(ii)(J).

If this statement is filed pursuant to Rule 13d-1(b), check this box.

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#### Item 4. Ownership

Provide the following information regarding the aggregate number and Percentage of the class of securities of issuer identified in Item 1.

- (a) Amount beneficially owned: 10,318,194

  Including 0 shares where there is a Right to Acquire.
- (b) Percent of class: 6.6%
- (c) Number of shares as to which such person has:

(i)	Sole power to vote or to direct the vote:	9,477,970
(ii)	Shared power to vote or to direct the vote:	208,661
(iii)	Sole power to dispose or to direct the disposition of:	10,109,576
(iv)	Shared power to dispose or to direct the disposition of:	208,528

#### Item 5. Ownership of Five Percent or Less of a Class. NOT APPLICABLE

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following. ()

## Item 6. Ownership of More than Five Percent on Behalf of Another Person.

JPMorgan Chase & Co. is the beneficial owner of 10,318,194 shares of the issuer's common stock on behalf of other persons known to have one or more of the following:

the right to receive dividends for such securities;
the power to direct the receipt of dividends from such securities;
the right to receive the proceeds from the sale of such securities;

the right to direct the receipt of proceeds from the sale of such securities;

No such person is known to have an interest in more than 5% of the class of securities reported herein unless such person is identified below.

# Item 7. Identification and Classification of the Subsidiary Which Acquired the Security being reported on by the Parent Holding Company.

This notice is filed on behalf of JPMorgan Chase & Co. and its wholly owned Subsidiary (ies),

J.P. Morgan Investment Management Inc.

JPMorgan Chase Bank, National Association

JPMorgan Asset Management (UK) Limited

- J.P. Morgan International Bank Limited
- J.P. Morgan (Suisse) SA
- J.P. Morgan Trust Company of Delaware

# Item 8. Identification and Classification of Members of the Group.

Not Applicable

#### Item 9. Notice of Dissolution of Group.

Not Applicable

#### Item 10. Certifications

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

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information set forth in this statement is true, complete and correct.

Dated: January 19, 2016 JPMorgan Chase & Co.

By: /s/ Michael T. Lees

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Michael T. Lees

Compliance

The original statement shall be signed by each person on whose behalf the statement is filed or his authorized representative. If the statement is signed on behalf of a person by his authorized representative (other than an executive officer or general partner of the filing person), evidence of the representative's authority to sign on behalf of such person shall be filed with the statement, provided, however, that a power of attorney for this purpose which is already on file with the commission may be incorporated by reference. The name and any title of each person who signs the the statement shall be typed or printed beneath his signature.