SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

SCHEDULE 13G (Rule 13d-102)

Information statement pursuant to Rules 13d-1 and 13d-2

Under the Securities Exchange Act of 1934 (Amendment No.)

MKS Instruments, Inc. (Name of Issuer)

Common Stock (Title of Class of Securities)

> 55306N104 (CUSIP Number)

Date of Event Which Requires Filing of this Statement: August 31, 2007

*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

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CUSIP No. 55306N104
                      13G
 1 NAME OF REPORTING PERSON
 S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON
 Royce & Associates, LLC
                            52-2343049
     CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP
                                                (a)
                                                    [ ]
                                                (b)
      SEC USE ONLY
  3
     CITIZENSHIP OR PLACE OF ORGANIZATION
                       New York
                   5 SOLE VOTING POWER
  NUMBER OF
                   6,384,010
    SHARES
 BENEFICIALLY
                          SHARED VOTING POWER
   OWNED BY
    EACH
                   7 SOLE DISPOSITIVE POWER
  REPORTING
                    6,384,010
                   8 SHARED DISPOSITIVE POWER
  PERSON
   WITH
    AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING
                     6,384,010
     PERSON
    CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9)
    EXCLUDES CERTAIN SHARES
 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)
                     11.1%
 12 TYPE OF REPORTING PERSON
CUSIP No. 55306N104
                      13G
            Name of Issuer:
Item 1(a)
MKS Instruments, Inc.
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Item 1(b) Address of Issuer's Principal Executive Offices: Investor Relations

90 Industrial Way Wilmington, MA 1887

Item 2(a) Name of Persons Filing:

Royce & Associates, LLC

Item 2(b) Address of Principal Business Office, or, if None, Residence:

1414 Avenue of the Americas, New York, NY 10019

Item 2(c) Citizenship:

New York Corporation

Item 2(d) Title of Class of Securities:

Common Stock

Item 2(e) CUSIP Number:

55306N104

Item 3 If this statement is filed pursuant to rules 13d-1(b), or 13d-2(b), check whether the person filing is a:

(a) [] Broker or Dealer registered under Section 15 of the Act

	(c)	[] In [] In	nk as defined in Section 3(a)(6) of the Act surance Company as defined in Section 3(a)(19) of the Act vestment Company registered under Section 8 of e Investment Company Act	
	(e)		vestment Adviser registered under Section 203 of e Investment Advisers Act of 1940	
	(f)	su	ployee Benefit Plan, Pension Fund which is bject to the provisions of the Employee	
CUSTE	(h)		<u>.</u>	
10011	n 4 Ownership (a) Amount Beneficially Owned: 6,384,010			
	(b)	(b) Percent of Class: 11.1%		
	(c)	(c) Number of shares as to which such person has:		
		(i) sole power to vote or to direct the vote 6,384,010		
		(ii)	shared power to vote or to direct the vote	
		(iii)	sole power to dispose or to direct the disposition of 6,384,010	
		(iv)	shared power to dispose or to direct the disposition of	
Item	5	0wners	hip of Five Percent or Less of a Class. []	
Item	6		nership of More than Five Percent on Behalf of Another Person . NOT APPLICABLE	
Item	7	Identification and Classification of the Subsidiary Which Acquired The Security Being Reported on by the Parent Holding Company.		
T+	_		T APPLICABLE	

Item 8 Identification and Classification of Members of the Group.

NOT APPLICABLE

Item 9 Notice of Dissolution of Group.

NOT APPLICABLE

CUSIP No. 55306N104 13G Item 10 Certification.

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.

Signature

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement with respect to it is true, complete and correct.

Date: September 07, 2007

By: W. Whitney George, Vice President