

CUSIP No. 636518 10 2

OMB APPROVAL

OMB Number: 3235-0145
Expires: December 31, 1997
Estimated average burden
hours per response.....14.90

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

SCHEDULE 13G

Under the Securities Exchange Act of 1934

(Amendment No. ONE)*

NATIONAL INSTRUMENTS CORPORATION

(Name of Issuer)

COMMON STOCK

(Title of Class of Securities)

636518 10 2

(CUSIP Number)

*The remainder of this cover page shall be filled out for a reporting person's initial filing of 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).

SEC 1745 (2-95)

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- 1 NAME OF REPORTING PERSON
S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON
JEFFREY L. KODOSKY
- 2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*

(a) | |
(b) | |
3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION
USA

5 SOLE VOTING POWER
1,643,970

NUMBER OF
SHARES
BENEFICIALLY
OWNED BY EACH
REPORTING
PERSON WITH

6 SHARED VOTING POWER
-0-

7 SOLE DISPOSITIVE POWER
1,643,970

8 SHARED DISPOSITIVE POWER
-0-

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
1,643,970

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN
SHARES*

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9
7.6%

12 TYPE OF REPORTING PERSON*
IN

*SEE INSTRUCTION BEFORE FILLING OUT

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13 NAME OF REPORTING PERSON
S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON
GAIL T. KODOSKY

14 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*
(a) | |
(b) | |

15 SEC USE ONLY

16 CITIZENSHIP OR PLACE OF ORGANIZATION
USA

17 SOLE VOTING POWER

NUMBER OF
SHARES
BENEFICIALLY
OWNED BY EACH
REPORTING
PERSON WITH

1,133,970

18	SHARED VOTING POWER	
	-0-	
19	SOLE DISPOSITIVE POWER	1,133,970
20	SHARED DISPOSITIVE POWER	-0-
21	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
		1,133,970
22	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*	
23	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9	5.2%
24	TYPE OF REPORTING PERSON*	
	IN	

*SEE INSTRUCTION BEFORE FILLING OUT

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Item 1.

(a) Name of Issuer NATIONAL INSTRUMENTS CORPORATION

(b) Address of Issuer's Principal Executive Offices
6504 Bridge Point Parkway, Austin, TX 78730-5039

Item 2.

(a) Name of Person Filing JEFFREY L. KODOSKY

(b) Address of Principal Business Office or, if none, Residence
6504 Bridge Point Parkway, Austin, TX 78730-5039

(c) Citizenship
USA

(d) Title of Class of Securities
COMMON STOCK

(e) CUSIP Number 636518 10 2

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

- (a) Broker or Dealer registered under Section 15 of the Act
- (b) Bank as defined in section 3(a)(6) of the Act
- (c) Insurance Company as defined in section 3(a)(19) of the Act
- (d) Investment Company registered under section 8 of the Investment Company Act
- (e) Investment Adviser registered under section 203 of the Investment Advisers Act of 1940
- (f) Employee Benefit Plan, Pension Fund which is subject to the provisions of the Employee Retirement Income Security Act of 1974 or Endowment Fund, see 240.13d-1(b)(1)(ii)(F)
- (g) Parent Holding Company, in accordance with 240.13d-1(b)(ii)(G)
(Note: See Item 7)
- (h) Group, in accordance with 240.13d-1(b)(1)(ii)(H)

Item 4. Ownership

(a) Amount Beneficially Owned 2,777,940

(b) Percent of Class 12.8%

(c) Number of shares as to which such person has:

(i) sole power to vote or to direct the vote 2,777,940

(ii) shared power to vote or to direct the vote Not Applicable
(iii) sole power to dispose or direct the disposition of 2,777,940
(iv) shared power to dispose or direct the disposition of Not Applicable

*Includes 510,000 shares held in trusts for the benefit of Mr. Kodosky's children who he is the trustee

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Item 5. Ownership of Five Percent or Less of a Class

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 .

NOT APPLICABLE

Item 6. Ownership 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.

NOT APPLICABLE

Item 8. Identification and Classification of Members of the Group

NOT APPLICABLE

Item 9. Notice of Dissolution of Group

NOT APPLICABLE

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Item 10.

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

Date February 12, 1997

/s/ JEFFREY L. KODOSKY
Signature

Jeffrey L. Kodosky/
VP Research and Development
Name/Title

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