

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

SCHEDULE 13G

Under the Securities Exchange Act of 1934

(Amendment No. 1)*

MATRIX SERVICE COMPANY
(Name of Issuer)

COMMON STOCK
(Title of Class of Securities)

576853105
(CUSIP Number)

December 31, 1999
(Date of Event Which Requires Filing of this Statement)

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

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

*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).

 NAME OF REPORTING PERSONS.
 1. I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS
 HEARTLAND ADVISORS, INC.
 #39-1078128

 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP
 2. (a)
 (b)

 SEC USE ONLY
 3.

 CITIZENSHIP OR PLACE OF ORGANIZATION
 4. WISCONSIN, U.S.A.

 SOLE VOTING POWER
 5. 0
 NUMBER OF SHARES

 SHARED VOTING POWER
 6. None
 BENEFICIALLY OWNED BY

 SOLE DISPOSITIVE POWER
 7. 600,000
 EACH REPORTING PERSON

 SHARED DISPOSITIVE POWER
 8. None
 WITH

 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
 9. 600,000

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

 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9
 11. 6.2%

 TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)
 12. IA

Item 1.

- (a) Name of Issuer: Matrix Service Company

- (b) Address of Issuer's Principal Executive Offices:

10701 E. Ute Street
Tulsa, OK 74116-1517

Item 2.

- (a) Name of Person Filing: Heartland Advisors, Inc.

- (b) Address of Principal Business Office:

Heartland Advisors, Inc.
789 North Water Street
Milwaukee, WI 53202
- (c) Citizenship: Heartland Advisors is a Wisconsin corporation.

- (d) Title of Class of Securities: Common Stock

- (e) CUSIP Number: 576853105

Item 3. If this statement is filed pursuant to (S)(S)240.13d-1(b) or

240.13d-2(b) or (c), check whether the person filing is a:

- (a) ___ Broker or Dealer registered under Section 15 of the Act
(15 U.S.C. 78o).
- (b) ___ Bank as defined in Section 3(a)(6) of the Act (15 U.S.C. 78c).
- (c) ___ Insurance company as defined in Section 3(a)(19) of the Act
(15 U.S.C. 78c).
- (d) ___ Investment company registered under section 8 of the Investment
Company Act of 1940 (15 U.S.C. 80a-8).
- (e) X An investment adviser in accordance with
--- (S)240.13d-1(b)(1)(ii)(E);
- (f) ___ An employee benefit plan or endowment fund in accordance with
(S)240.13d-1(b)(1)(ii)(F);

- (g) ___ A parent holding company or control person in accordance with (S)240.13d-1(b)(ii)(G);
- (h) ___ A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);
- (i) ___ A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3);
- (j) ___ Group, in accordance with (S)240.13d-1(b)(1)(ii)(J).

If this statement is filed pursuant to (S)240.13d-1(c), check this box [] .

Item 4. Ownership.

- (a) Amount beneficially owned:

600,000 shares may be deemed beneficially owned within the meaning of Rule 13d-3 of the Securities Exchange Act of 1934 by Heartland Advisors, Inc.
- (b) Percent of Class:

6.2%
- (c) For information on voting and dispositive power with respect to the above listed shares, see Items 5-8 of the Cover Page.

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: []

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

The shares of common stock to which this Schedule relates are held in investment advisory accounts of Heartland Advisors, Inc. As a result, various persons have the right to receive or the power to direct the receipt of dividends from, or the proceeds from the sale of, the securities. The interests of one such account, Heartland Value Fund, a series of Heartland Group, Inc., a registered investment company, relates to more than 5% of the class.

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 a Group.

Not Applicable.

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 is true, complete and correct.

DATE: January 20, 2000

HEARTLAND ADVISORS, INC.

By: PATRICK J. RETZER
Patrick J. Retzer
Senior Vice President