Rankin William C Form 5 February 04, 2009

FORM 5

OMB APPROVAL

3235-0362

January 31,

OMB UNITED STATES SECURITIES AND EXCHANGE COMMISSION Number: Washington, D.C. 20549 Expires:

Check this box if no longer subject to Section 16. ANNUAL STATEMENT OF CHANGES IN BENEFICIAL Form 4 or Form 5 obligations

2005 Estimated average burden hours per response... 1.0

OWNERSHIP OF SECURITIES may continue. See Instruction

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, 1(b). Form 3 Holdings Section 17(a) of the Public Utility Holding Company Act of 1935 or Section Reported 30(h) of the Investment Company Act of 1940 Form 4

Transactions Reported

| 1. Name and Address of Reporting Person ** Rankin William C | | | 2. Issuer Name and Ticker or Trading Symbol GeoMet, Inc. [GMET] | 5. Relationship of Reporting Person(s) to Issuer | | |
|---|----------------|----------|--|--|--|--|
| (Last) | (Last) (First) | (Middle) | 3. Statement for Issuer's Fiscal Year Ended | (Check all applicable) | | |
| | | | (Month/Day/Year) | Director 10% Owner | | |
| 909 FANNIN STREET, SUITE 1850 | | | 12/31/2008 | X Officer (give title Other (specify below) Executive VP and CFO | | |
| (Street) | | | 4. If Amendment, Date Original Filed(Month/Day/Year) | 6. Individual or Joint/Group Reporting | | |
| | | | | (check applicable line) | | |
| HOUSTON, | , TX 770 | 010 | | _X_ Form Filed by One Reporting Person Form Filed by More than One Reporting | | |

Person

| (City) | (State) | (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned | | | | | | | |
|--------------------------------------|---|--|---|--|--------|--------|--|--|---|
| 1.Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction Code (Instr. 8) | 4. Securitie (A) or Disp (Instr. 3, 4) | osed o | of (D) | 5. Amount of Securities Beneficially Owned at end of Issuer's Fiscal Year (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Beneficial Ownership (Instr. 4) |
| Common Stock | 12/15/2008 | Â | G | 200,000 (1) | D | \$ 0 | 218,296 | D | Â |
| Common Stock | 12/15/2008 | Â | G | 200,000 (2) | A | \$0 | 200,000 | I | By GRAT |
| Common Stock | Â | Â | Â | Â | Â | Â | 213,541 (3) | I | By Investment Limited Partnership |

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.

SEC 2270 (9-02)

D

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

| Derivative Conversion (Month/Day/Year) Execution Date, if Transaction Number Expiration Date Amount of Derivative Security or Exercise any Code of (Month/Day/Year) Underlying Security (Instr. 3) Price of (Month/Day/Year) (Instr. 8) Derivative Securities (Instr. 5) | 7 |
|--|---|
| | |
| (Instr. 3) Price of (Month/Day/Year) (Instr. 8) Derivative Securities (Instr. 5) |) |
| | |
| Derivative Securities (Instr. 3 and 4) | |
| Security Acquired | |
| (A) or | |
| Disposed | |
| of (D) | |
| (Instr. 3, | |
| 4, and 5) | |
| Amount | |
| Amount Of Or | |
| Date Expiration Title Number | |
| Exercisable Date of | |
| (A) (D) Shares | |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | | | |
|--|---------------|-----------|-------------------------|-------|--|--|
| F 8 | Director | 10% Owner | Officer | Other | | |
| Rankin William C 909 FANNIN STREET SUITE 1850 HOUSTON, TX 77010 | Â | Â | Executive VP and CFO | Â | | |

Signatures

/s/ William C.
Rankin

_**Signature of Reporting Person

Date

Explanation of Responses:

- * If the form is filed by more than one reporting person, see Instruction 4(b)(v).
- ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).
- (1) These shares were contributed by the reporting person to a grantor retained annuity trust on December 15, 2008. The reporting person serves as a trustee of the trust.
- These shares were previously reported as directly beneficially owned but were contributed to a grantor retained annuity trust on December 15, 2008. The reporting person serves as a trustee of the trust.
- Includes 212,325 shares of common stock held by a family limited partnership and 1,216 shares of common stock held by the general partner of the family limited partnership. The reporting person owns a 66% limited partner interest in the family limited partnership and is the sole member of the general partner of the family limited partnership.

Note: File three copies of this Form, one of which must be manually signed. If space provided is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

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