

SCHNITZER STEEL INDUSTRIES INC  
Form SC 13G  
February 13, 2009

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, DC 20549

SCHEDULE 13G  
Under the Securities and Exchange Act of 1934  
(Amendment No. \_\_\_\_\_)

Schnitzer Steel Industries, Inc.

-----  
(Name of Issuer)

Class A Common Stock

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(Title of Class of Securities)

806882106

-----  
(CUSIP Number)

December 31, 2008

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(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.)

CUSIP NO. 806882106 13G

1 Name of Reporting Person / IRS Identification Number:  
Advisory Research, Inc. / 36-2831881

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2 Check the Appropriate Box if a Member of a Group (a) [ ]  
(See Instructions) (b) [ ]

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3 SEC Use Only  
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4      Citizenship or Place of Organization  
       Delaware

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Number of  
Shares                   5      Sole Voting Power  
                                  1335010 Shares

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Beneficially  
Owned By               6      Shared Voting Power  
                                  0 Shares

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Each  
Reporting               7      Dispositive Power  
                                  1335010 Shares

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Person  
With                    8      Shared Dispositive Power  
                                  0 Shares

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9      Aggregate Amount Beneficially Owned by Each Reporting Person  
       1335010 Shares

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10     Check if the Aggregate Amount in Row (9) Excludes Certain  
       Shares [ ]           (See Instructions)

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11     Percent of Class Represented by Amount in Row (9)  
       6.14%

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12     Type of Reporting Person  
       IA

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Item 1     (a) Name of Issuer: Schnitzer Steel Industries, Inc.

Item 1     (b) Name of Issuer's Principal Executive Offices:  
           3200 N.W. Yeon Ave.  
           P.O. Box 10047  
           Portland, OR 97210

Item 2     (a) Person Filing: Advisory Research, Inc.

Item 2     (b) Address: 180 North Stetson St., Suite 5500  
                                  Chicago, IL 60601

Item 2     (c) Citizenship: Advisory Research, Inc. is a  
                                  Delaware Corporation

Item 2     (d) Title of Class of Securities: Class A Common Stock

Item 2     (e) CUSIP Number: 806882106

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

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- (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 Advisor in accordance with section 240.13d-1(b)(1)(ii)(E)
- (f)  Employee Benefit Plan or Endowment Fund in accordance with section 240.13d-1(b)(1)(ii)(F)
- (g)  Parent Holding Company or Control Person in accordance with section 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 of 1940

Item 4 Ownership

- (a) Amount Beneficially Owned:  
Advisory Research, Inc. 1335010 Shares
- (b) Percent of Class 6.14%
- (c) Number of shares as to which reporting person has:
  - (i) Sole Voting Power 1335010 Shares
  - (ii) Shared Voting Power 0 Shares
  - (iii) Sole Dispositive Power 1335010 Shares
  - (iv) Shared Dispositive Power 0 Shares

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: 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 if Members of the Group: Not Applicable

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Item 9 Notice of Dissolution of 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 such securities and were not acquired and are not held 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.

02/13/2009

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Date

/s/ Brien M. O'Brien

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Signature

Brien M. O'Brien, Chairman & CEO

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Name/Title