

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

SCHEDULE 13G

Under the Securities Exchange Act of 1934

(Amendment No.)*

Mine Safety Appliances Company

(Name of Issuer)

Common Stock

(Title of Class of Securities)

602720104

(CUSIP Number)

December 31, 2005

(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).

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CUSIP No. 602720104

13G

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1 NAME OF REPORTING PERSON
 S.S. or I.R.S. IDENTIFICATION NO. OF ABOVE PERSON

Columbia Wanger Asset Management, L.P. 04-3519872

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*

(a)
(b)

Not Applicable

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

NUMBER OF 5 SOLE VOTING POWER

SHARES 3,472,300

BENEFICIALLY 6 SHARED VOTING POWER

OWNED BY 0

EACH 7 SOLE DISPOSITIVE POWER

REPORTING 3,472,300

PERSON 8 SHARED DISPOSITIVE POWER

WITH 0

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

3,472,300

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

Not Applicable

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

9.5%

12 TYPE OF REPORTING PERSON*

IA

1 NAME OF REPORTING PERSON
S.S. or I.R.S. IDENTIFICATION NO. OF ABOVE PERSON

WAM Acquisition GP, Inc.

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*

(a)
(b)

Not Applicable

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

NUMBER OF 5 SOLE VOTING POWER
SHARES 0

BENEFICIALLY 6 SHARED VOTING POWER

OWNED BY 3,472,300

EACH 7 SOLE DISPOSITIVE POWER

REPORTING 0

PERSON 8 SHARED DISPOSITIVE POWER

WITH 3,472,300

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

3,472,300

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

Not Applicable

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

9.5%

12 TYPE OF REPORTING PERSON*

CO

Item 1(a) Name of Issuer:
Mine Safety Appliances Company

Item 1(b) Address of Issuer's Principal Executive Offices:
121 Gamma Drive
RIDC Industrial Park
O'hara Township
Pittsburgh, PA 15238

Item 2(a) Name of Person Filing:
Columbia Wanger Asset Management, L.P. ("WAM")
WAM Acquisition GP, Inc., the general partner of WAM ("WAM GP")

Item 2(b) Address of Principal Business Office:
WAM and WAM GP are located at:
227 West Monroe Street, Suite 3000
Chicago, Illinois 60606

Item 2(c) Citizenship:
WAM is a Delaware limited partnership and WAM GP is a Delaware corporation.

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

Item 2(e) CUSIP Number:
602720104

Item 3 Type of Person:
(e) WAM is an Investment Adviser registered under section 203 of the Investment Advisers Act of 1940; WAM GP is the General Partner of the Investment Adviser.

Item 4 Ownership (at December 31, 2005):

(a) Amount owned "beneficially" within the meaning of rule 13d-3:

(i) WAM: 3,472,300

(ii) WAM GP: 3,472,300

(b) Percent of class:

(i) WAM: 9.5%

(ii) WAM GP: 9.5%

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

(1) sole power to vote or to direct the vote:

(i) WAM: 3,472,300

(ii) WAM GP: 0

(2) shared power to vote or to direct the vote:

(i) WAM: 0

(ii) WAM GP: 3,472,300

(3) sole power to dispose or to direct the disposition of:

(i) WAM: 3,472,300

(ii) WAM GP: 0

(4) shared power to dispose or to direct disposition of:

(i) WAM: 0

(ii) WAM GP: 3,472,300

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

Not Applicable

Item 6 Ownership of More than Five Percent on Behalf of Another Person:

The shares reported herein include the shares held by Columbia Acorn Trust (CAT), a Massachusetts business trust that is advised by WAM, a Delaware limited partnership. CAT holds 8.0 % shares.

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

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.

Disclaimer

In accordance with Rule 13d-4 of the Securities Exchange Act of 1934, each of the persons filing this statement expressly disclaim the beneficial ownership of the securities covered by this statement and the filing of this report shall not be construed as an admission by such persons that they are the beneficial owners of such securities.

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 13, 2006

The undersigned corporation, on the date above written, agrees and consents to the joint filing on its behalf of this Schedule 13G in connection with its beneficial ownership of the security reported herein.

WAM Acquisition GP, Inc.
for itself and as general partner of
COLUMBIA WANGER ASSET MANAGEMENT, L.P.

By: /s/ Bruce H. Lauer

Bruce H. Lauer
Senior Vice President and Secretary

EXHIBIT INDEX

Exhibit 1 Joint Filing Agreement dated as of February 13, 2006 by and among
Columbia Wanger Asset Management, L.P., WAM Acquisition GP, Inc.
and Columbia Acorn Trust.

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JOINT FILING AGREEMENT

The undersigned hereby agree to the joint filing of the Schedule 13G to which this Agreement is attached.

Dated: February 13, 2006

WAM Acquisition GP, Inc.
for itself and as general partner of
COLUMBIA WANGER ASSET MANAGEMENT, L.P.

By: /s/ Bruce H. Lauer

Bruce H. Lauer
Senior Vice President and Secretary

COLUMBIA ACORN TRUST

By: /s/ Bruce H. Lauer

Bruce H. Lauer
Vice President, Treasurer and
Secretary