

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

SCHEDULE 13G

Under the Securities Exchange Act of 1934  
(Amendment No.9 Invista Capital Management, Inc.)\*  
(Amendment No.3 Principal Mutual Life Insurance Co.)\*

Quaker Chemical Corp.  
(Name of Issuer)

Common Stock  
(Title and Class of Securities)

747316107  
(CUSIP Number)

\*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 disclosures provided in a prior cover page.

The information required on 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).

SCHEDULE 13G

CUSIP No.026375105

Page 2 of 4

1 NAME OF REPORTING PERSON  
S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON  
Invista Capital Management, Inc.

Principal Mutual Life Insurance Company

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

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION

Invista Capital Management, Inc. State of Iowa

Principal Mutual Life Insurance Company State of Iowa

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH

5 SOLE VOTING POWER  
Invista Capital Management, Inc. 0  
Principal Mutual Life Insurance Company 0

6 SHARED VOTING POWER  
Invista Capital Management, Inc. 334,200  
Principal Mutual Life Insurance Company 334,200

7 SOLE DISPOSITIVE POWER

Invista Capital Management, Inc.  
Principal Mutual Life Insurance Company

0  
0

8 SHARED DISPOSITIVE POWER  
Invista Capital Management, Inc.  
Principal Mutual Life Insurance Company

334,200  
334,200

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  
Invista Capital Management, Inc.  
Principal Mutual Life Insurance Company

334,200  
334,200

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

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)  
Invista Capital Management, Inc.  
Principal Mutual Life Insurance Company

3.9%  
3.9%

12 TYPE OF REPORTING PERSON\*

Invista Capital Management, Inc.  
Principal Mutual Life Insurance Company HC

IA

Schedule 13G

ITEM 1(a) Name of Issuer: Quaker Chemical Corp.

ITEM 1(b) Address of Issuer's Principal Executive Offices:  
Elm & Lee Streets  
Conshohocken, PA 19428-0809

ITEM 2(a) Name of Persons Filing:  
Invista Capital Management, Inc.  
Principal Mutual Life Insurance Co.

ITEM 2(b) Address of Principal Business Office:  
Invista Capital Management, Inc. Principal Mutual Life Ins. Co.  
699 Walnut 711 High Street  
1500 Hub Tower Des Moines, IA 50392-0088  
Des Moines, IA 50309

ITEM 2(c) Citizenship:  
Invista Capital Management, Inc. - State of Iowa  
Principal Mutual Life Insurance Co. - State of Iowa

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

ITEM 2(e) CUSIP Number: 747316107

ITEM 3: This statement is filed pursuant to Rule 13d-2(b) by a person who is an investment advisor registered under Section 203 of the Investment Advisers Act of 1940, and a person who is a parent holding company in accordance with Section 240.13d-1(b)(1)(ii)(G).

ITEM 4: Ownership: (a) Amount Beneficially Owned:  
334,200 Shares Common Stock presently held by Invista Cap. Mgmt.  
334,200 Shares Common Stock presently held by Principal Mutual

(b) Percent of Class:  
3.90% Invista Capital Management, Inc.  
3.90% Principal Mutual Life Insurance Co.

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

(i) Sole power to vote or to direct the vote:  
0 Invista Capital Management, Inc.  
0 Principal Mutual Life Insurance Co.

(ii) Shared power to vote or to direct the vote:  
334,200 Shares Common Stock presently held by Invista Capital Management, Inc.  
334,200 Shares Common Stock presently held by Principal Mutual Life Insurance Co.

(iii) Sole power to dispose or to direct the disposition of:  
0 Invista Capital Management, Inc.  
0 Principal Mutual Life Ins. Co.

(iv) Shared power to dispose or to direct the disposition of:  
334,200 Shares Common Stock presently held by Invista Capital Management, Inc.  
334,200 Shares Common Stock presently held by Principal Mutual Life Insurance Co.

ITEM 5: Ownership of 5% or Less of Class: This statement is being filed to report the fact that as of the date hereof the reporting persons indicated below has ceased to be the beneficial owner of more than 5 percent of the class of securities addressed by this report.

Invista Capital Management X  
Principal Mutual Life Insurance Co. X

ITEM 6: Ownership of More than 5% 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: See Exhibit attached

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 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.

INVISTA CAPITAL MANAGEMENT, INC.

By /s/ Lisa M. Smith  
Lisa M. Smith, Financial & Compliance Officer

PRINCIPAL MUTUAL LIFE INSURANCE COMPANY  
By: INVISTA CAPITAL MANAGEMENT, INC.

By /s/ Lisa M. Smith  
Lisa M. Smith, Financial & Compliance Officer

Dated this 14th day of February, 1997.

the Principal  
Financial Group

Principal Mutual  
Life Insurance Company

MEMORANDUM

February 1, 1995

TO: Ralph Kosmicke, President  
Invista Capital Management, Inc.

FROM: Ron Keller, Executive Vice President  
Principal Mutual Life Insurance Company

RE: Schedule 13G Filings

This is to confirm that Principal Mutual Life Insurance Company has authorized Invista Capital Management, Inc. to file Schedule 13Gs with the Securities and Exchange Commission on behalf of Principal Mutual Life Insurance Company. In addition, Principal Mutual hereby authorizes Invista to sign to Schedule 13Gs that Invista files with the Securities and Exchange Commission on behalf of Principal Mutual. Principal Mutual hereby authorizes Invista to use any of its executive officers as well as Lisa M. Smith, Invista's current compliance officer, to act as Invista's authorized representative in signing Schedule 13Gs that Invista files with the Securities and Exchange Commission on behalf of Principal Mutual.

This authorization shall remain in effect until further notice.

Principal Mutual understands and agrees that this authorization will be filed as an exhibit, where necessary, to any Schedule 13Gs Invista files on behalf of Principal Mutual.

/s/ Ron Keller  
Ron Keller  
Executive Vice President

Mailing Address: Des Moines, Iowa 50392-0001  
(515)247-5111/FAX (515) 247-5930

INVISTA  
Capital Management, Inc.  
Ralph Kosmicke President

MEMORANDUM

January 26, 1995

TO: Lisa M. Smith, Manager - Administrative Systems  
Invista Capital Management, Inc.

FROM: Ralph Kosmicke, President  
Invista Capital Management, Inc.

RE: Schedule 13G Filings

This is to confirm that Invista Capital Management, Inc. authorizes you, Lisa M. Smith, to act as its representative in signing Schedule 13Gs that are filed with the Securities and Exchange Commission on behalf of Invista.

This authorization shall remain in effect until further notice.

I understand and agree that this authorization will be filed as an exhibit, where necessary, to any Schedule 13G Invista files with the Securities and Exchange Commission.

/s/ Ralph Kosmicke  
Ralph Kosmicke  
President

1500 Hub Tower/699 Walnut/Des Moines, Iowa 50309/(515)247-6582

Looking ahead of the marketSM

EXHIBIT 99.1

Invista Capital Management, Inc.

Item 3 Classification:

(e) Investment Adviser registered under Section 203 of the  
Investment Advisers Act of 1940