# SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

# SCHEDULE 13D (Rule 13d-101)

# INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT TO RULE 13d-1(a) AND AMENDMENTS THERETO FILED PURSUANT TO RULE 13d-2(a)

(Amendment No. 5)\*

ARADIGM CORPORATION

(Name of Issuer)

COMMON STOCK NO PAR VALUE (Title of Class of Securities)

038505-301 (CUSIP Number)

Søren Thor Jensen Novo Nordisk A/S Novo Alle DK-2880 Bagsvaerd Denmark

Tel No.: +45 4444 8888 (Name, Address and Telephone Number of Person Authorized

to Receive Notices and Communications)

September 15, 2010 (Date of Event which Requires Filing of this Statement)

If the filing person has previously filed a statement on Schedule 13G to report the acquisition that is the subject of this Schedule 13D, and is filing this schedule because of Rule 13d-1(e), 13d-1(f) or 13d-1(g), check the following box.

Note. Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. See Rule 13d-7 for other parties to whom copies are to be sent.

\* 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 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. 038505-301 13D Page 3 of 14 Pages

1 NAME OF REPORTING PERSONS

I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)

Novo Nordisk A/S

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

(a) o (b)x

o

3 SEC USE ONLY

4 SOURCE OF FUNDS\*

OO

5 CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(d) or 2(e)

6 CITIZENSHIP OR PLACE OF ORGANIZATION

The Kingdom of Denmark

7 SOLE VOTING POWER

NUMBER OF

27,573,672

BENEFICIALLY 8 SHARED VOTING POWER

OWNED

 $\frac{0}{BY}$ 

9 SOLE DISPOSITIVE POWER

EACH

REPORTING 27,573,672

PERSON WITH 10 SHARED DISPOSITIVE POWER

0

11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

27,573,672 See Item 5

12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES

13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)

16.9% See Item 5

14 TYPE OF REPORTING PERSON

CO

3

o

### Item 1. Security and Issuer.

Novo Nordisk A/S, a publicly quoted Danish company ("Buyer"), hereby amends and supplements its Report on Schedule 13D, originally filed on November 14, 2001 (as amended and supplemented, the "Schedule 13D") with respect to the shares of common stock, no par value (the "Shares") of Aradigm Corporation, a California Corporation (the "Issuer"). The Issuer's principal executive offices are located at 3929 Point Eden Way, Hayward, California, 94545.

### Item 2. Identity and Background.

The address of the principal business office of Buyer is Novo Alle, DK-2880 Bagsværd, Denmark. Buyer is a focused healthcare company that manufactures and markets pharmaceutical products and services for the treatment of diabetes, coagulation disorders, human growth hormone and hormone replacement therapy. Buyer holds 27,573,672 Shares both directly (26,204,122 Shares) and indirectly through Novo Nordisk Inc. (previously named Novo Nordisk Pharmaceuticals, Inc.) (1,133,144 Shares), a Delaware corporation ("NN Inc.") whose principal business office is located at 100 College Road West, Princeton, New Jersey, 08540 and Novo Nordisk Delivery Technologies, Inc. (236,406 Shares), a Delaware corporation ("Novo Nordisk Delivery Technologies, Inc.") whose principal place of business is located at 103 Foulk Road, Suite 282, Wilmington, DE 19803.

NN Inc. is a company that engages in marketing and sales of pharmaceutical products in the United States market. NN Inc. is a wholly-owned subsidiary of Novo Nordisk US Holdings, Inc. ("NN US Holdings"). NN US Holdings is a Delaware corporation whose principal place of business is 103 Foulk Road, Suite 282, Wilmington, DE 19803. NN US Holdings's primary business is to engage in any lawful act or activity for which corporations may be organized under the General Corporation Law of the State of Delaware. NN US Holdings is wholly owned by Buyer.

Novo Nordisk Delivery Technologies, Inc.'s primary business is to engage in any lawful act or activity for which corporations may be organized under the General Corporation Law of the State of Delaware. Novo Nordisk Delivery Technologies, Inc. is a wholly-owned subsidiary of NN US Holdings.

Novo A/S, a private limited Danish company whose principal business office is located at Tuborg Havnevej 19, DK-2900 Hellerup, Denmark, owns approximately 25.5% of Buyer's total share capital, representing approximately 71.5% of the voting rights of Buyer and may be deemed to control Buyer. The principal objective of Novo A/S is to manage the Novo Nordisk Foundation's financial assets through investments in the life science area and in a broad portfolio of financial assets. Novo A/S is a wholly-owned subsidiary of Novo Nordisk Foundation (the "Foundation"), a self-governing and self-owned foundation whose principal business office is located at Tuborg Havnevej 19, DK-2900 Hellerup, Denmark. The principal business of the Foundation is to provide a stable basis for the business and research activities undertaken by Novo A/S and its affiliates and to support scientific and humanitarian purposes.

The name, address, present principal occupation or employment and citizenship of each director and executive officer of each of Buyer, NN Inc., Novo Nordisk Delivery Technologies, Inc., NN US Holdings, Novo A/S and the Foundation is set forth on Schedule A.

During the last five years, Buyer has not, and to the best of Buyer's knowledge, none of NN Inc., Novo Nordisk Delivery Technologies, Inc., NN US Holdings, Novo A/S, the Foundation or any of the persons listed on Schedule A attached hereto has, been convicted in a criminal proceeding (excluding traffic violations or similar misdemeanors) or has been a party to a civil proceeding of a judicial or administrative body of competent jurisdiction and as a result of such proceeding was or is subject to a judgment, decree or final order enjoining future violations of, or

prohibiting or mandating activities subject to, federal or state securities laws or finding any violation with respect to such laws.

Item 3. Source and Amount of Funds or Other Consideration.

See Item 4 below for a description of the Stock Purchase Agreement.

Item 4. Purpose of Transaction.

The response set forth in item 4 is hereby amended and supplemented with the following:

On July 30, 2010, the Issuer entered into a Stock Purchase Agreement (the "Stock Purchase Agreement") with Buyer providing for the issuance by the Issuer to Buyer in a private placement of 26,000,000 Shares (the "New Shares") in consideration for the termination of all of the Issuer's obligations under the Promissory Note and Security Agreement dated July 3, 2006 (the "Promissory Note"). The Promissory Note evidenced, among other things, a loan made by Buyer to the Issuer in the principal amount of \$7.5 million, bearing interest accruing at 5% per annum with the principal, along with the accrued interest, payable in three equal payments of approximately \$3.5 million at July 2, 2012, July 1, 2013 and June 30, 2014. As at July 30, 2010, the amount outstanding under the Promissory Note, including accrued interest, was approximately \$9.1 million.

Among other conditions, the Stock Purchase Agreement required that the Issuer obtain approval of its shareholders to increase the number of authorized shares of the Issuer's common stock in an amount sufficient to authorize the issuance of the New Shares. At a special meeting of the Issuer's shareholders duly called and held on September 14, 2010, the requisite shareholders of the Issuer approved the proposal to amend the Issuer's Articles of Incorporation to increase the number of authorized shares of the Issuer's common stock in an amount sufficient to authorize the issuance of the New Shares. Buyer acquired the New Shares on September 15, 2010.

The Issuer also entered into a Registration Rights Agreement with Buyer on July 30, 2010 (the "Registration Rights Agreement"). As required by the Registration Rights Agreement, on August 11, 2010, the Issuer filed a registration statement covering, among other securities, the New Shares acquired by Buyer pursuant to the Stock Purchase Agreement.

Buyer intends to continuously review its holdings in the Issuer on a regular basis and may at any time or from time to time determine to dispose of any Shares it owns in the open market, in privately negotiated transactions or otherwise, in such quantities and at such times as may be determined from time to time, or take any other available course of action, which could involve, among other things, the acquisition or disposition by Buyer or any other person of additional Shares of the Issuer. In reaching any decision as to its course of action, Buyer currently expects that it would take into consideration a variety of factors, including the Issuer's business, financial condition and prospects, other developments concerning the Issuer and its business generally, other developments and other business opportunities available to Buyer, developments with respect to Buyer's business and general economic outlook, changes in law and regulations, general economic conditions, and money, currency, commodity and stock market conditions, including the market price of the securities of the Issuer.

Item 5. Interest in Securities of the Issuer.

(a), (b) For the purposes of Rule 13d-3 promulgated under the Securities Exchange Act of 1934, as amended, Buyer may be deemed to beneficially own 27,573,672 Shares, or approximately 16.9% of the outstanding Shares.

(c) None of Buyer, any of the persons named in Item 2 or any of the persons set forth on Schedule A, has effected any transaction in the Shares during the past 60 days.

- (d) Not applicable.
- (e) Not applicable.

Item 6. Contracts, Arrangements, Understandings or Relationships with Respect to Securities of the Issuer.

See response to Item 4.

In addition, in connection with the Stock Purchase Agreement, the Issuer, Buyer and NN Inc. entered into a Payoff and Termination Letter dated July 30, 2010 (the "Termination Letter") to, among other things, terminate the Amended and Restated Stock Purchase Agreement dated January 26, 2005 by and among the Issuer, Buyer and NN Inc. further described in Amendment No. 4 to the statement on Schedule 13D filed on September 29, 2004.

The Voting Agreement dated September 28, 2004 (described in Amendment No. 4 to the statement on Schedule 13D filed on September 29, 2004) by and among Novo Nordisk Delivery Technologies, Inc. and certain owners of Shares including V. Bryan Lawlis, Jr., President and Chief Executive Officer of Issuer, Thomas C. Chesterman, Senior Vice President and Chief Financial Officer of Issuer, Babatunde A. Otulana, M.D., Vice President for Clinical and Regulatory Affairs of Issuer, Richard Thompson, Chairman and a member of the board of directors of Issuer, Igor Gonda, a director of Issuer, Virgil D. Thompson, a director of Issuer and New Enterprise Associates 10, Limited Partnership terminated pursuant to its terms and is no longer in effect.

Item 7. Material to be Filed as Exhibits.

Exhibit 1: Stock Purchase Agreement dated as of July 30, 2010 between Issuer and Buyer (incorporated by reference to Exhibit 10.1 to the Issuer's Current Report on Form 8-K filed with the Securities and Exchange Commission on August 2, 2010).

### **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.

September 16, 2010 September 16, 2010

Date Date

/s/ Lars Fruergaard Jørgensen /s/ Jesper Brandgaard

Signature Signature

Lars Fruergaard Jørgensen Jesper Brandgaard

Senior Vice President IT & Executive Vice President
Corporate Development and Chief Financial Officer

Schedule A

#### DIRECTORS AND EXECUTIVE OFFICERS OF NOVO NORDISK A/S

The name, address, title, present principal occupation or employment of each of the directors and executive officers of Novo Nordisk A/S are set forth below. If no address is given, the director's or officer's address is Novo Alle, DK-2880 Bagsvaerd, Denmark. The directors are designated with asterisks (\*).

Name and Citizenship Principal Occupation and Address

\* Sten Scheibye

Danish

Chairman of the Board

\*Göran A. Ando Essex Woodlands Health

Swedish Ventures Ltd.

Berkeley Square House Berkeley Square London W1J 6BR United Kingdom

\* Henrik Gürtler Novo A/S

Danish Tuborg Havnevej 19

2900 Hellerup Denmark

\* Ulrik Hjulmand-Lassen

Danish

Novo Nordisk A/S Nybrovej 80 Building NYA2.16 2820 Gentofte

2820 Gentof Denmark

\*Pamela J. Kirby

**British** 

\*Anne Marie Handrup Kverneland

Danish

\*Kurt Anker Nielsen Kastanievej 6
Danish 2960 Rungsted Kyst

Denmark

\*Søren Thuesen Pedersen Novo Nordisk A/S

Nybrovej 80

Danish 2820 Gentofte

**Building NYA2.05** 

Denmark

\*Stig Strøbaek Danish Novo Nordisk, A/S Laurentsvej 22, 7X 2880 Bagsvaerd Denmark

\* Hannu Ryöppönen 7 Bryanston Mews West

Finnish London

W1H 2BW United Kingdom

\*Jørgen Wedel 29 Winsor Way

Danish Weston

02493 Massachusetts

USA

Lars Rebien Sørensen President & CEO
Danish Novo Nordisk A/S

Jesper Brandgaard Executive Vice President & CFO

Danish Novo Nordisk A/S

Kåre Schultz Executive Vice President & COO

Danish Novo Nordisk A/S

Mads Krogsgaard Thompsen Chief Science Officer & CSO

Danish Novo Nordisk A/S

Lise Kingo Executive Vice President & COS

Danish Novo Nordisk A/S

### DIRECTORS AND EXECUTIVE OFFICERS OF NOVO NORDISK INC.

The name, address, title, present principal occupation or employment of each of the directors and executive officers of Novo Nordisk Inc. are set forth below. If no address is given, the director's or officer's address is 100 College Road, Princeton, New Jersey 08540. The directors are designated with asterisks (\*).

Name and Citizenship Principal Occupation and Address

\*Jerzy Gruhn President

Poland Novo Nordisk Inc.

\*Kare Schultz Chief Operating Officer
Danish Novo Nordisk A/S

Novo Alle 2880 Bagsvaerd Denmark

\*Ole F. Ramsby Senior Vice President Legal Affairs

Danish and General Counsel

Novo Nordisk A/S

Novo Alle 2880 Bagsvaerd Denmark

\*Karsten Munk Knudsen Treasurer, Assistant Secretary and Vice

Danish President, Finance
Novo Nordisk Inc.

\*James C. Shehan Secretary and Vice President Legal Affairs

USA Novo Nordisk Inc.

Jeffrey Frazier Vice President Human Resources

USA Novo Nordisk Inc.

Per Falk Vice President Clinical, Medical &

Regulatory Affairs
Sweden Novo Nordisk Inc.

Mark Stolp Assistant Treasurer USA Novo Nordisk Inc.

Jill M. Fallows Assistant Secretary USA Novo Nordisk Inc.

Paul Hoogsteden Assistant Treasurer USA Novo Nordisk Inc.

Matthew J. Hill USA

Assistant Secretary Novo Nordisk Inc.

### DIRECTORS AND EXECUTIVE OFFICERS OF NOVO NORDISK DELIVERY TECHNOLOGIES, INC.

The name, address, title, present principal occupation or employment of each of the directors and executive officers of Novo Nordisk Delivery Technologies, Inc. are set forth below. If no address is given, the director's or officer's address is 103 Foulk Road, Suite 282, Wilmington, DE 19803. The directors are designated with asterisks (\*).

Name and Citizenship Principal Occupation and Address

\*Ole F. Ramsby Senior Vice President Legal Affairs

Danish and General Counsel

Novo Nordisk A/S

Novo Alle 2880 Bagsvaerd

Denmark

\*James C. Shehan Secretary

USA Novo Nordisk Delivery Technologies, Inc.

\*Karsten Munk Knudsen President & Treasurer

USA Novo Nordisk Delivery Technologies, Inc.

Mark Stolp Assistant Treasurer

USA Novo Nordisk Delivery Technologies, Inc.

Jill M. Fallows Assistant Secretary

USA Novo Nordisk Delivery Technologies, Inc.

Paul Hoogsteden Assistant Treasurer

USA Novo Nordisk Delivery Technologies, Inc.

Matthew J. Hill Assistant Secretary

USA Novo Nordisk Delivery Technologies, Inc.

Pam Jasinski Assistant Treasurer

USA Novo Nordisk Delivery Technologies, Inc.

### DIRECTORS AND EXECUTIVE OFFICERS OF NOVO NORDISK US HOLDINGS, INC.

The name, address, title, present principal occupation or employment of each of the directors and executive officers of Novo Nordisk US Holdings, Inc. are set forth below. If no address is given, the director's or officer's address is 103 Foulk Road, Suite 282, Wilmington, DE 19803. The directors are designated with asterisks (\*).

Name and Citizenship Principal Occupation and Address

\*Karsten Munk Knudsen President and Treasurer

Danish Novo Nordisk US Holdings, Inc.

\*James Shehan Secretary

USA Novo Nordisk US Holdings, Inc.

\*Ole F. Ramsby Senior Vice President Legal Affairs

Danish and General Counsel

Novo Nordisk A/S Novo Alle

Novo Alle 2880 Bagsvaerd

Denmark

Mark Stolp Assistant Treasurer

USA Novo Nordisk US Holdings, Inc.

Jill M. Fallows Assistant Secretary

USA Novo Nordisk US Holdings, Inc.

Paul Hoogsteden Assistant Treasurer

USA Novo Nordisk US Holdings, Inc.

Matthew J. Hill Assistant Secretary

USA Novo Nordisk US Holdings, Inc.

Joan Schmidt Assistant Secretary

USA Novo Nordisk US Holdings, Inc.

Pam Jasinski Assistant Treasurer

USA Novo Nordisk US Holdings, Inc.

### DIRECTORS AND EXECUTIVE OFFICERS OF NOVO A/S

The name, address, title, present principal occupation or employment of each of the directors and executive officers of Novo A/S, are set forth below. If no address is given, the director's or officer's address is Tuborg Havnevej 19, DK-2900 Hellerup, Denmark. The directors are designated with asterisks (\*).

Name and Citizenship Principal Occupation and Address

\*Ulf J. Johansson Chairman of the Board of Directors

Swedish Novo A/S

\*Jørgen Boe Member, Board of Directors

Danish Novo A/S

\*Göran A. Ando Member, Board of Directors

Swedish Novo A/S

\*Jeppe Christiansen Member, Board of Directors

Danish Novo A/S

Henrik Gürtler CEO
Danish Novo A/S

### DIRECTORS AND EXECUTIVE OFFICERS OF FOUNDATION

The name, address, title, present principal occupation or employment of each of the directors and executive officers of the Foundation, are set forth below. If no address is given, the director's or officer's address is at Tuborg Havnevej 19, DK-2900 Hellerup, Denmark. The directors are designated with asterisks (\*).

Name and Citizenship Principal Occupation and Address

\*Ulf J. Johansson Chairman of the Board of Directors

Swedish Novo Nordisk Foundation

\*Jørgen Boe Member, Board of Directors Danish Novo Nordisk Foundation

\*Bo Ahrén Member, Board of Directors Swedish Novo Nordisk Foundation

\*Niels Borregaard Member, Board of Directors Danish Novo Nordisk Foundation

\*Hans Ejvind Hansen Member, Board of Directors
Danish Novo Nordisk Foundation

\*Ulla Morin Member, Board of Directors (employee

elected)

Danish Novo Nordisk Foundation

\*Søren Thuesen Pedersen Member, Board of Directors (employee

elected)

Danish Novo Nordisk Foundation

\*Kurt Anker Nielsen Member, Board of Directors
Danish Novo Nordisk Foundation

\*Stig Strøbæk Member, Board of Directors (employee

elected)

Danish Novo Nordisk Foundation

Birgitte Nauntofte Director

Danish Novo Nordisk Foundation