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

#### FORM 8-K

### CURRENT REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

Date of report (Date of earliest event reported): April 6, 2010

GENTA INCORPORATED (Exact Name of Registrant as Specified in Its Charter)

Delaware (State or Other Jurisdiction of Incorporation)

0-19635 (Commission File Number) 33-0326866 (IRS Employer Identification No.)

200 Connell Drive Berkeley Heights, NJ (Address of Principal Executive Offices)

07922 (Zip Code)

(908) 286-9800 (Registrant's Telephone Number, Including Area Code)

(Former Name or Former Address, if Changed Since Last Report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the Registrant under any of the following provisions:

- o Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- o Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a -12)

o Pre -commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d -2(b))

o Pre -commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Item 8.01 Other Events.

On April 6, 2010, Genta Incorporated, (the Company), announced that that the U.S. Food and Drug Administration (FDA) has granted the Company's request for "Fast Track" designation of tesetaxel for treatment of patients with advanced gastric cancer. Tesetaxel — a late Phase 2 oncology product — is the leading oral taxane currently in clinical development.

Fast Track designation is designed to facilitate the development and expedite the review of new drugs that are intended to treat serious or life-threatening conditions and that demonstrate the potential to address unmet medical needs. The designation typically enables a Company to submit a New Drug Application (NDA) on a "rolling" basis with ongoing FDA review during the submission process. NDAs with Fast Track designation are also usually granted priority review by FDA at the time of submission.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits.

Exhibit

Number

99.1 Press Release of the Company dated April 6, 2010

### **SIGNATURES**

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

### GENTA INCORPORATED

Date: April 6, 2010 By: /s/ GARY SIEGEL

Name: Gary Siegel

Title: Vice President, Finance

## EXHIBIT INDEX

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99.1 Press Release of the Company dated April 6, 2010