Gentium S.p.A. Form 8-A12G May 16, 2006

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

FORM 8-A

FOR REGISTRATION OF CERTAIN CLASSES OF SECURITIES
PURSUANT TO SECTION 12(b) OR (g) OF THE
SECURITIES EXCHANGE ACT OF 1934

Gentium S.p.A.	
(Exact name of registran	at as specified in its charter)
Republic of Italy	Not applicable
(State of incorporation or organizati	on) (I.R.S. Employer Identification No.)
Piazza XX Settembre 2, 22079 Villa Gu	ardia (Como), Italy
(Address of principal executive office	ces) (Zip Code)
Securities to be registered pursuant	to Section 12(b) of the Act:
Title of each class to be so registered	Name of each exchange on which each class is to be registered
None.	
If this form relates to the registrat Section 12(b) of the Exchange Act and Instruction A.(c), check the following	
If this form relates to the registrat Section 12(g) of the Exchange Act and Instruction A.(d), check the following	
Securities Act registration statement 333-122233 (if applicable)	file number to which this form relates:
Securities to be registered pursuant	to Section 12(g) of the Act:
Ordinary Shares, par value (euro)1.00	each (not for trading, but only in
connection with the American Deposita	ry Shares)* on The Nasdaq National Market.
(Titl	e of class)
	e of class)

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\* The registrant has registered 20,000,000 American Depositary Shares representing the Ordinary Shares under the Securities Act of 1933, as amended, pursuant to a separate Registration Statement on Form F-6 (Registration No. 333-125663), as amended, originally filed with the Securities and Exchange Commission on June 9, 2005, and accordingly, such American Depositary Shares are exempt from registration under Section 12(g) of the Securities Exchange Act of 1934, as amended, pursuant to rule 12g3-2(c) thereunder.

Item 1. Description of Registrant's Securities to be Registered

Descriptions of the Ordinary Shares and American Depositary Shares to be registered hereunder are contained (i) in the sections entitled "Description of Securities," "Description of American Depositary Shares" and "Taxation" in the Preliminary Prospectus included in the Registrant's Registration Statement on Form F-1 (Registration No. 333-122233), as amended, originally filed with the Securities and Exchange Commission on January 24, 2005 under the Securities Act of 1933, as amended, and are incorporated herein by reference and (ii) in the sections entitled "Description of Securities," "Description of American Depositary Shares" and "Taxation" in the Preliminary Prospectus included in the Registrant's Registration Statement on Form F-1 (Registration No. 333-130796), as amended, originally filed with the Securities and Exchange Commission on December 30, 2005 under the Securities Act of 1933, as amended, and are incorporated herein by reference.

### Item 2. Exhibits

The documents listed below are filed as exhibits to this Registration Statement.

## Exhibt No.

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3(i)\* Articles of Association of Gentium S.p.A.

3(ii) \*\* Bylaws of Gentium S.p.A.

- 4.6\* Form of Deposit Agreement among Gentium S.p.A., The Bank of New York and the owners and beneficial owners from time to time of American Depositary Receipts.
- 4.7\* Form of American Depositary Receipt (attached as Exhibit A to the Deposit Agreement).

\* Incorporated by reference to the Exhibits of the same number to the Registrant's Registration Statement on Form F-1, as amended, originally filed with the Securities and Exchange Commission on January 24, 2005.

\*\* Incorporated by reference to the Exhibits of the same number to the Registrant's Registration Statement on Form F-1, as amended, originally filed with the Securities and Exchange Commission on December 30, 2005.

Pursuant to the requirements of Section 12 of the Securities Exchange Act of 1934, the registrant has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: May 15, 2006 GENTIUM S.P.A.

By: /s/ CARY GROSSMAN

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Cary Grossman Executive Vice-President and Chief Financial Officer

#### Exhibit Index

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