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**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, DC 20549**

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**FORM S-8  
REGISTRATION STATEMENT  
UNDER  
THE SECURITIES ACT OF 1933**

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**PEDIATRIX MEDICAL GROUP, INC.**

(Exact name of registrant as specified in its charter)

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**Florida**  
(State or other jurisdiction of  
incorporation or organization)

**65-0271219**  
(IRS Employer  
Identification Number)

**1301 Concord Terrace  
Sunrise, Florida 33323-2825**  
(Address of Principal Executive Offices)

**Amended and Restated Pediatrix Medical Group, Inc. 1996 Non-Qualified  
Employee Stock Purchase Plan**  
(Full title of the Plan)

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**Thomas W. Hawkins, Esq.**  
**Senior Vice President,**  
**General Counsel and Secretary**  
**Pediatrix Medical Group, Inc.**  
**1301 Concord Terrace**  
**Sunrise, Florida 33323-2825**  
(Name and address of agent for service)

**Copies to:**  
**Ira N. Rosner, Esq.**  
**Greenberg Traurig, P.A.**  
**1221 Brickell Avenue**  
**Miami, Florida 33131**  
**(305) 579-0844**

**(954) 384-0175**  
Telephone number, including area code, of agent for service

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Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act. (Check one):

Large accelerated filer   
Non-accelerated filer  (Do not check if a smaller reporting company)

Accelerated filer   
Smaller reporting company

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**CALCULATION OF REGISTRATION FEE**

Title of securities to be registered	Amount to be registered(1)(2)	Proposed maximum offering price per share	Proposed maximum aggregate offering price (3)	Amount of registration fee
Common Stock, \$0.01 par value, to be issued under the Amended and Restated Pediatrix Medical Group, Inc. 1996 Non-Qualified Employee Stock Purchase Plan	1,000,000 shares(4)	\$56.095(2)(3)	\$56,095,000.00	\$2,204.53

(1) Pursuant to Rule 416 of the Securities Act of 1933, as amended (the "Securities Act"), this registration statement shall also cover any additional shares of common stock, \$0.01 par value (the "Common Stock"), of Pediatrix Medical Group, Inc. (the "Registrant") which become issuable under the Amended and Restated Pediatrix Medical Group, Inc. 1996 Non-Qualified Employee Stock Purchase Plan (the "Purchase Plan") by reason of any stock dividend, stock split, recapitalization or other similar transaction effected without the receipt of consideration which results in an increase in the number of the Registrant's our outstanding shares of Common Stock.

(2) This registration statement also covers rights to purchase the Registrant's Series A Junior Participating Preferred Stock that presently are attached to and trade with the Common Stock. Any value attributable to such rights is reflected in the market price of the Common Stock.

(3) Estimated solely for the purpose of calculating the registration fee in accordance with Rules 457(c) and (h) of the Securities Act on the basis of the average of the high and low price of a share of Common Stock as reported by the New York Stock Exchange on September 5, 2008.

(4) This Registration Statement is being filed pursuant to General Instruction E to Form S-8 to register additional shares issuable under the Plan, as to which Plan shares were previously registered under the Registrant's Registration Statement on Form S-8 (No. 333-101225) (the "Prior Registration Statement").

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## EXPLANATORY NOTE

Pediatrix Medical Group, Inc. (sometimes referred to herein as “we”, “our”, or the “Registrant”) will conduct a special meeting of its shareholders on September 24, 2008, at which our shareholders will vote on the approval of our Amended and Restated 1996 Non-Qualified Employee Stock Purchase Plan (the “Plan”), which includes, among other things, an amendment to increase the maximum number of shares available for purchase under the Plan from 1,500,000, to 2,500,000. This registration statement registers the additional 1,000,000 shares to be issuable under the Plan (the “Additional Shares”). In accordance with General Instruction E of Form S-8, the contents of the Prior Registration Statement are incorporated herein by reference.

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**PART I. INFORMATION REQUIRED IN THE SECTION 10(a) PROSPECTUS**

The information specified by Items 1 and 2 of Part I of Form S-8 is omitted from this filing in accordance with the provisions of Rule 428 of the Securities Act of 1933, as amended (the "Securities Act"), and the introductory Note to Part I of Form S-8.

The documents containing the information specified in Part I of Form S-8 will be sent or given to participating employees as specified by Rule 428(b) of the Securities Act. Such documents and the documents incorporated by reference herein pursuant to Item 3 of Part II hereof, taken together, constitute a prospectus that meets the requirements of Section 10(a) of the Securities Act.

## PART II. INFORMATION REQUIRED IN THE REGISTRATION STATEMENT

### Item 3. Incorporation of Documents by Reference.

The following documents, which have been filed with the Securities and Exchange Commission, are hereby incorporated by reference into this registration statement:

- (a) Our Annual Report on Form 10-K for the fiscal year ended December 31, 2007;
- (b) Our Quarterly Reports on Form 10-Q for the quarters ended March 31, 2008 and June 30, 2008;
- (c) Our Current Reports on Form 8-K filed on January 17, 2008, March 28, 2008, April 7, 2008, May 27, 2008, August 22, 2008 and September 4, 2008 (not including any information furnished under Items 2.02, 7.01 or 9.01 of any such Form 8-K);
- (d) Our Proxy Statements on Schedule 14A filed on April 7, 2008 and August 22, 2008;
- (e) The description of our common stock contained in our Registration Statement on Form 8-A (Registration No. 001-12111) filed with the Securities and Exchange Commission on September 4, 1996 and any amendments to such Registration Statement filed subsequently thereto, including all amendments or reports filed for the purpose of updating such description; and
- (f) The description of the rights to purchase our Series A Junior Participating Preferred Stock contained in our Registration Statement on Form 8-A (Registration No. 001-14922) filed with the Securities and Exchange Commission on April 6, 1999 and any amendments to such Registration Statement filed subsequently thereto, including any amendments or reports filed for the purpose of updating such description.

In addition, all documents subsequently filed by us pursuant to Sections 13(a), 13(c), 14 and 15(d) of the Exchange Act (not including any information furnished under Items 2.02, 7.01 or 9.01 of Form 8-K, which information is not incorporated by reference herein) prior to the filing of a post-effective amendment which indicates that all securities offered have been sold or which deregisters all securities then remaining unsold, will be deemed to be incorporated herein by reference and to be a part of this registration statement from the date of filing of such documents. Any statement contained in a document incorporated herein by reference will be deemed to be modified or superseded for purposes of this registration statement to the extent that a statement contained herein, or in a subsequently filed document incorporated herein by reference, modifies or supersedes the statement. Any statement modified or superseded will not be deemed, except as modified or superseded, to constitute a part of this registration statement.

### Item 4. Description of Securities.

Not applicable.

### Item 5. Interests of Named Experts and Counsel.

The validity of the securities being registered hereunder is being passed upon for us by Greenberg Traurig, P.A., Miami, Florida. Cesar Alvarez, the Chief Executive Officer of Greenberg Traurig, P.A., is one of our directors. As of August 11, 2008, Mr. Alvarez beneficially owns 10,000 shares and options to acquire 76,002 shares of our common stock, of which 63,556 are currently, or within 60 days of such date will be, exercisable.

### Item 6. Indemnification of Directors and Officers.

The Florida Business Corporation Act permits a corporation to indemnify the following persons (using a case-by-case determination) against liabilities arising in the following circumstances:

- (i) any person who was or is party to any proceeding by reason of his or her service as a director, officer, employee or agent of the corporation; or
- (ii) any person serving in such capacity, at the request of the corporation, for another corporation or business entity.

To be indemnified, a person seeking indemnification must have acted in good faith and in a manner he or she reasonably believed to be in, or not opposed to, the best interests of the corporation. With respect to any criminal action or proceeding, such person must have had no reasonable cause to believe his or her conduct was unlawful. Under Florida law the corporation can indemnify such a person who is a party to any proceeding by or in the right of the corporation against expenses and amounts paid in settlement which were actually and reasonably incurred in connection with the defense or settlement of the proceeding. Such indemnification may not exceed the board of directors' estimated expense of litigating the matter to a conclusion. No indemnification shall be made in respect of any issue as to which such person shall have been adjudged to be liable unless, and only to the extent that, a court shall determine, in view of all circumstances, that such person is fairly and reasonably entitled to indemnity for such expenses which such court shall deem proper.

Under the Florida Business Corporation Act, indemnification for expenses actually and reasonably incurred in the defense of any proceeding is mandatory to the extent that a director, officer, employee or agent is successful in such defense. Florida law also allows a corporation to provide any other or further indemnification or advancement of expenses to its directors, officers, employees or agents; however such indemnification or advancement of expenses may not extend to situations where a final adjudication establishes that such person's actions, or omissions to act, were material to the cause of action so adjudicated and constitute:

- (i) a criminal violation, unless such person had reasonable cause to believe his conduct was lawful or had no reasonable cause to believe his conduct was unlawful;
- (ii) a transaction from which such person derived an improper personal benefit;
- (iii) in the case of a director, a circumstance under which the director would be liable for authorizing an improper distribution; or
- (iv) willful misconduct or conscious disregard for the best interests of the corporation in a proceeding by or in the right of the corporation to procure a judgment in its favor, or in a proceeding by or in the right of a shareholder.

The amended and restated articles of incorporation of the registrant provide that the registrant shall indemnify and may advance expenses to its officers and directors to the fullest extent permitted by the current law. The registrant has secured insurance covering the registrant and its directors and officers and those of its principal subsidiaries and affiliate companies against certain liabilities.

The registrant has entered into indemnification agreements with each member of its board of directors and its executive officers. The indemnification agreements require, among other things, that the registrant indemnify to the fullest extent permitted by law and advance to each indemnified director and executive officer all related expenses, subject to reimbursement if it is subsequently determined that indemnification is not permitted. Under the indemnification agreements, the registrant must also indemnify and advance all expenses incurred by an indemnified director or executive officer seeking to enforce his or her rights under the indemnification agreements and purchase and generally maintain in effect directors' and officers' liability insurance during the term, and for a period of five years following the termination, of each director's and executive officer's employment. Although the indemnification agreements offer substantially the same scope of coverage afforded by law, they provide greater assurance to directors and executive officers that indemnification will be available, because, as contracts, they cannot be modified unilaterally in the future by the board of directors or the stockholders to eliminate the rights they provide.

**Item 7. Exemption from Registration Claimed.**

Not applicable.

**Item 8. Exhibits**

See "Exhibit Index" on page II-5 below.

**Item 9. Undertakings**

(a) The undersigned registrant hereby undertakes:

- (1) To file, during any period in which offers or sales are being made, a post-effective amendment to this registration statement:
  - (i) To include any prospectus required by Section 10(a)(3) of the Securities Act of 1933 (the "Securities Act");
  - (ii) To reflect in the prospectus any facts or events arising after the effective date of the registration statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in the registration statement. Notwithstanding the foregoing, any increase or decrease in volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the Commission pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent not more than a 20 percent change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective registration statement;
  - (iii) To include any material information with respect to the plan of distribution not previously disclosed in the registration statement or any material change to such information in the registration statement;

*Provided, however,* that paragraphs (a)(1)(i) and (a)(1)(ii) do not apply if the information required to be included in a post-effective amendment by those paragraphs is contained in periodic reports filed with or furnished to the Commission by the Registrant pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934 (the "Exchange Act") that are incorporated by reference in this registration statement.

- (2) That, for the purpose of determining any liability under the Securities Act, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial *bona fide* offering thereof.
- (3) To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.

(b) The undersigned registrant hereby undertakes that, for purposes of determining any liability under the Securities Act, each filing of the registrant's annual report pursuant to section 13(a) or section 15(d) of the Exchange Act (and, where applicable, each filing of an employee benefit plan's annual report pursuant to section 15(d) of the Exchange Act) that is incorporated by reference in the registration statement shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial *bona fide* offering thereof.

(c) Insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors, officers and controlling persons of the registrant pursuant to the foregoing provisions, or otherwise, the registrant has been advised that in the opinion of the Securities and Exchange Commission such indemnification is against public policy as expressed in the Securities Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the registrant of expenses incurred or paid by a director, officer or controlling person of the registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Securities Act and will be governed by the final adjudication of such issue.

**SIGNATURES**

Pursuant to the requirements of the Securities Act of 1933, the registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-8 and has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Sunrise, State of Florida on this 9th day of September, 2008.

**PEDIATRIX MEDICAL GROUP, INC.**

By: /s/ Roger J. Medel, M.D.  
Roger J. Medel, M.D.  
Chief Executive Officer

**POWER OF ATTORNEY**

Each person whose signature appears below hereby appoints Thomas W. Hawkins and Karl B. Wagner his true and lawful attorney-in-fact with authority to execute in the name of each such person, and to file with the Securities and Exchange Commission, together with any exhibits thereto and other documents therewith, any and all amendments (including without limitation post-effective amendments) to this registration statement necessary or advisable to enable the registrant to comply with the Securities Act of 1933, as amended, and any rules, regulations and requirements of the Securities and Exchange Commission in respect thereof, which amendments may make such other changes in the registration statement as the aforesaid attorney-in-fact executing the same deems appropriate. Pursuant to the requirements of the Act, this registration statement has been signed below by the following persons in the capacities and on the dates indicated.

<u>Signature</u>	<u>Title</u>	<u>Date</u>
<u>Cesar L. Alvarez</u>	Chairman of the Board	
<u>/s/ Roger J. Medel, M.D.</u> Roger J. Medel, M.D.	Chief Executive Officer and Director	September 9, 2008
<u>/s/ Karl B. Wagner</u> Karl B. Wagner	Chief Financial Officer and Principal Accounting Officer	September 9, 2008
<u>/s/ Waldemar A. Carlo, M.D.</u> Waldemar A. Carlo, M.D.	Director	September 9, 2008
<u>Michael B. Fernandez</u>	Director	
<u>/s/ Roger K. Freeman, M.D.</u> Roger K. Freeman, M.D.	Director	September 9, 2008
<u>/s/ Paul G. Gabos</u> Paul G. Gabos	Director	September 9, 2008
<u>/s/ Pascal J. Goldschmidt, M.D.</u> Pascal J. Goldschmidt, M.D.	Director	September 9, 2008
<u>/s/ Manuel Kadre</u> Manuel Kadre	Director	September 9, 2008
<u>/s/ Enrique J. Sosa, Ph.D.</u> Enrique J. Sosa, Ph.D.	Director	September 9, 2008



## EXHIBIT INDEX

<u>Exhibit Number</u>	<u>Description</u>
4.1	Articles of Designations of Series A Junior Participating Preferred Stock (incorporated by reference to Exhibit 3.1 to the Registrant's Current Report on Form 8-K dated March 31, 1999).
4.2	Rights Agreement dated as of March 31, 1999, between the registrant and Computershare Trust Company N.A. (successor rights agent to BankBoston, N.A.), as rights agent, including the form of Articles of Designations of Series A Junior Participating Preferred Stock and the form of Rights Certificate (incorporated by reference to Exhibit 4.1 to the Registrant's Current Report on Form 8-K dated March 31, 1999).
4.3	Certificate of Adjustment to the Rights Agreement between Pediatrix and Computershare Trust Company N.A. (as successor rights agent to BankBoston, N.A.), as rights agent (incorporated by reference to Exhibit 4.2 to the Registrant's Current Report on Form 8-K dated April 27, 2006).
4.4	Amendment No. 1, dated March 28, 2008, to Rights Agreement, dated March 31, 1999, between the Company and Computershare Trust Company N.A. (successor rights agent to BankBoston, N.A.), as rights agent (incorporated by reference to Exhibit 4.1 to the Registrant's Current Report on Form 8-K dated March 28, 2008).
5.1	Opinion of Greenberg Traurig, P.A.
10.1	Amended and Restated Pediatrix Medical Group, Inc. 1996 Non-Qualified Employee Stock Purchase Plan, incorporated by reference to Exhibit A to the Registrant's Proxy Statement on Schedule 14A filed on August 22, 2008.
23.1	Consent of PricewaterhouseCoopers LLP
23.2	Consent of Greenberg Traurig, P.A. (contained in its opinion filed as Exhibit 5.1 hereto)
24.1	Power of Attorney (contained on the signature pages of this Registration Statement)

## [Greenberg Traurig, P.A. Letterhead]

September 10, 2008

Pediatrix Medical Group, Inc.  
1301 Concord Terrace  
Sunrise, Florida 33323-2825

**Re: Registration Statement on Form S-8 for the Pediatrix 2008 Incentive Compensation Plan**

Ladies and Gentlemen:

On or about the date hereof, Pediatrix Medical Group, Inc., a Florida corporation (the "Company"), is filing with the Securities and Exchange Commission (the "Commission") a Registration Statement on Form S-8 (the "Registration Statement"), under the Securities Act of 1933, as amended (the "Act"). The Registration Statement relates to the offering and sale by the Company of an additional 1,000,000 shares of the Company's Common Stock, par value \$0.01 per share (together with attached rights to purchase the Company's Series A Junior Participating Preferred Stock, the "Common Stock"), under the Amended and Restated Pediatrix Medical Group, Inc. 1996 Non-Qualified Employee Stock Purchase Plan (the "Plan"). We have acted as counsel to the Company in connection with the preparation and filing of the Registration Statement.

In connection therewith, we have examined and relied upon the original or a copy, certified to our satisfaction, of (i) the Amended and Restated Articles of Incorporation and Amended and Restated Bylaws of the Company, each as amended to the date hereof; (ii) records of corporate proceedings of the Company related to the Plan; (iii) the Registration Statement and exhibits thereto; and (iv) such other documents and instruments as we have deemed necessary for the expression of the opinions herein contained. In making the foregoing examinations, we have assumed the genuineness of all signatures and the authenticity of all documents submitted to us as originals, and the conformity to original documents of all documents submitted to us as certified or photocopies. As to various questions of fact material to this opinion, we have relied, to the extent we deemed reasonably appropriate, upon representations of officers or directors of the Company and upon documents, records and instruments furnished to us by the Company, without independently checking or verifying the accuracy of such documents, records and instruments.

Based upon the foregoing examination, we are of the opinion that assuming that (i) the Company maintains an adequate number of authorized and unissued shares of Common Stock available for issuance pursuant to the Plan and (ii) the consideration required to be paid in connection with the issuance and sale of shares of Common Stock issued pursuant to the Plan is actually received by the Company as provided in the Plan, the shares of Common Stock issued pursuant to the Plan will be duly and validly issued, fully paid and nonassessable.

This opinion is rendered only to you and is solely for your benefit in connection with the transactions covered hereby. This opinion may not be relied upon by you for any other purpose, or furnished to, quoted to or relied upon by any other person, firm or corporation for any purpose, without our prior written consent.

We hereby consent to the filing of this opinion as an exhibit to the Registration Statement. In giving such consent, we do not admit that we come within the category of persons whose consent is required by Section 7 of the Act or the rules and regulations of the Commission thereunder.

*Sincerely,*

GREENBERG TRAURIG, P.A.

/s/ Ira N. Rosner

By: Ira N. Rosner

**CONSENT OF INDEPENDENT REGISTERED CERTIFIED PUBLIC ACCOUNTING FIRM**

We hereby consent to the incorporation by reference in this Registration Statement on Form S-8 of our report dated February 28, 2008 relating to the financial statements and financial statement schedule of Pediatrix Medical Group, Inc., which appears in Pediatrix Medical Group, Inc.'s Annual Report on Form 10-K for the year ended December 31, 2007.

/s/ PricewaterhouseCoopers LLP

PricewaterhouseCoopers LLP  
Tampa, Florida  
September 9, 2008