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**SECURITIES AND EXCHANGE COMMISSION**  
**WASHINGTON, D.C. 20549**

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**POST-EFFECTIVE AMENDMENT NO. 1**  
**TO**  
**FORM S-3**  
**REGISTRATION STATEMENT**

**UNDER**  
**THE SECURITIES ACT OF 1933**

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**American Tower Corporation**

(Exact name of registrant as specified in its charter)

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

**65-0723837**  
(I.R.S. Employer  
Identification No.)

**116 Huntington Avenue**  
**Boston, Massachusetts 02116**  
**(617) 375-7500**

(Address, including zip code, and telephone number, including area code, of registrant's principal executive offices)

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**James D. Taiclet, Jr.**  
**Chairman, President and Chief Executive Officer**  
**American Tower Corporation**  
**116 Huntington Avenue**  
**Boston, Massachusetts 02116**  
**(617) 375-7500**

(Name, address, including zip code, and telephone number, including area code, of agent for service)

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*Copies to:*

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**Executive Vice President and General Counsel**  
**American Tower Corporation**  
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**Approximate date of commencement of proposed sale to the public:** From time to time after this Registration Statement becomes effective.

If the only securities being registered on this Form are being offered pursuant to dividend or interest reinvestment plans, please check the following box. ☐

If any of the securities being registered on this Form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, other than in connection with dividend or interest reinvestment plans, check the following box. ☒

If this Form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, check the following box and list the Securities Act registration number of the earlier effective registration statement for the same offering. ☐

If this Form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act, check the following box and list the Securities Act registration number of the earlier effective registration statement for the same offering. ☐

If delivery of the prospectus is expected to be made pursuant to Rule 434, please check the following box. ☐

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The Registrant hereby amends this Registration Statement on such date or dates as may be necessary to delay its effective date until the amended Registration Statement shall become effective on such date as the Commission, acting pursuant to Section 8(c) of the Securities Act of 1933, may determine

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## Explanatory Note

On May 19, 2000, the Securities and Exchange Commission declared the effectiveness of the Registration Statement on Form S-3 (Registration No. 333-35412) (the “Registration Statement”) of American Tower Corporation (“American”) with respect to the resale of American’s 5.0% Convertible Notes due 2010 (the “Notes”) and the shares of American’s Class A Common Stock, \$0.01 par value per share, issuable upon the conversion of the Notes (the “Shares”). The Registration Statement was filed by American for the benefit of holders of the Notes (the “Noteholders”) who were granted registration rights pursuant to a Registration Rights Agreement dated February 15, 2000 (the “Agreement”).

The Agreement requires American to maintain the effectiveness of the Registration Statement until such time as all Notes held by persons who are not affiliates of American are eligible for resale under Rule 144(k) of the Securities Act of 1933, as amended. That date occurred on February 15, 2002. In accordance with the terms of the Agreement, and in accordance with American’s undertaking under Regulation S-K Item 512(a)(3), American is filing this Post-Effective Amendment No. 1 to remove from registration all Notes not sold by Noteholders pursuant to the Registration Statement. American hereby requests the deregistration of an aggregate of \$2.0 million principal amount of the Notes and the Shares issuable upon the conversion of the Notes, and requests that upon the effectiveness of this Post-Effective Amendment No. 1, that such Notes and Shares be removed from registration.

## 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-3 and has duly caused this Post-Effective Amendment No. 1 to Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Boston, Commonwealth of Massachusetts, on this 28th day of February, 2005.

### AMERICAN TOWER CORPORATION

By: /s/ JAMES D. TAICLET, JR.

**James D. Taiclet, Jr.**  
**Chairman, President and Chief Executive Officer**

Pursuant to the requirements of the Securities Act of 1933, this Registration Statement has been signed by the following persons in the capacities and on the dates indicated.

<u>Signature</u>	<u>Title</u>	<u>Date</u>
/s/ JAMES D. TAICLET, JR. <b>James D. Taiclet, Jr.</b>	Chairman, President and Chief Executive Officer (Principal Executive Officer)	February 28, 2005
/s/ BRADLEY E. SINGER <b>Bradley E. Singer</b>	Chief Financial Officer and Treasurer (Principal Financial Officer)	February 28, 2005
/s/ TIMOTHY F. ALLEN <b>Timothy F. Allen</b>	Senior Vice President, Finance and Controller (Principal Accounting Officer)	February 28, 2005
/s/ RAYMOND P. DOLAN <b>Raymond P. Dolan</b>	Director	February 28, 2005
/s/ CAROLYN F. KATZ <b>Carolyn F. Katz</b>	Director	February 28, 2005
/s/ GUSTAVO LARA <b>Gustavo Lara</b>	Director	February 28, 2005
/s/ FRED R. LUMMIS <b>Fred R. Lummis</b>	Director	February 28, 2005
/s/ PAMELA D. A. REEVE <b>Pamela D. A. Reeve</b>	Director	February 28, 2005