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

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**POST-EFFECTIVE AMENDMENT NO. 1 (No. 333-72927)**  
**POST-EFFECTIVE AMENDMENT NO. 1 (No. 333-56331)**

**TO**

**FORM S-8**  
**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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**Specialty Teleconstructors, Inc. 1997 Stock Incentive Plan**  
**Specialty Teleconstructors, Inc. 1998 Stock Option Plan**  
**American Tower Corporation 1995 Stock Option Plan**  
(Full Titles of the Plans)

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**Edmund DiSanto, Esq.**  
**Executive Vice President, Chief Administrative Officer, General Counsel and Secretary**  
**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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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.

Large accelerated filer	<input checked="" type="checkbox"/>	Accelerated filer	<input type="checkbox"/>
Non-accelerated filer	<input type="checkbox"/> (Do not check if a smaller reporting company)	Smaller reporting company	<input type="checkbox"/>

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## EXPLANATORY NOTE/DEREGISTRATION OF UNREGISTERED SECURITIES

The Registrant is filing these Post-Effective Amendments No. 1 to the following Registration Statements on Form S-8 (the “Registration Statements”), which have been previously filed with the Securities and Exchange Commission:

- i. (No. 333-72927) originally covering 971,850 shares of Class A common stock of American Tower Corporation which underlie options that were issued to purchase shares of common stock of OmniAmerica, Inc. and assumed by the Registrant (Specialty Teleconstructors, Inc. 1997 Stock Incentive Plan and the Specialty Teleconstructors, Inc. 1998 Stock Option Plan); and
- ii. (No. 333-56331) originally covering 1,252,364 shares of Class A common stock of American Tower Corporation (American Tower Corporation 1995 Stock Option Plan).

In accordance with an undertaking made by the Registrant in the Registration Statements to remove from registration, by means of a post-effective amendment, any of the securities registered under the Registration Statements that have not been sold at the termination of the offering, the Registrant hereby amends the Registration Statements to deregister any remaining securities registered and unsold under the Registration Statements. The securities are being removed from registration because the Registrant no longer offers or sells the securities under the Plans referenced above and in the Registration Statements.

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## SIGNATURES

Pursuant to the requirements of the Securities Act, the Registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing this 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 Boston, Commonwealth of Massachusetts, on this 29<sup>th</sup> day of December, 2011.

AMERICAN TOWER CORPORATION

By: /s/ EDMUND DiSANTO  
**Edmund DiSanto**  
Executive Vice President, Chief Administrative  
Officer, General Counsel and Secretary

Pursuant to the requirements of the Securities Act, these Post-Effective Amendments have been signed by the following persons in the capacities and on the dates indicated. This document may be executed in counterparts that when so executed shall constitute one registration statement, notwithstanding that all of the undersigned are not signatories to the original of the same counterpart.

<u>Signatures</u>	<u>Title</u>	<u>Date</u>
<u>/s/ JAMES D. TAICLET, JR.</u> (James D. Taiclet, Jr.)	Chairman, President and Chief Executive Officer (Principal Executive Officer)	December 29, 2011
<u>/s/ THOMAS A. BARTLETT</u> (Thomas A. Bartlett)	Executive Vice President and Chief Financial Officer (Principal Financial Officer)	December 29, 2011
<u>/s/ ROBERT J. MEYER, JR.</u> (Robert J. Meyer, Jr.)	Senior Vice President, Finance and Corporate Controller (Principal Accounting Officer)	December 29, 2011
<u>/s/ RAYMOND P. DOLAN</u> (Raymond P. Dolan)	Director	December 29, 2011
<u>/s/ RONALD M. DYKES</u> (Ronald M. Dykes)	Director	December 29, 2011
<u>/s/ CAROLYN F. KATZ</u> (Carolyn F. Katz)	Director	December 29, 2011
<u>/s/ GUSTAVO LARA CANTU</u> (Gustavo Lara Cantu)	Director	December 29, 2011
<u>/s/ JOANN A. REED</u> (Joann A. Reed)	Director	December 29, 2011
<u>/s/ PAMELA D. A. REEVE</u> (Pamela D. A. Reeve)	Director	December 29, 2011
<u>/s/ DAVID E. SHARBUTT</u> (David E. Sharbutt)	Director	December 29, 2011
<u>/s/ SAMME L. THOMPSON</u> (Samme L. Thompson)	Director	December 29, 2011