## SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Schedule 13G

Under the Securities Exchange Act of 1934 (Amendment No. 1)\*

AMERICAN TOWER CORP.					
(Name of Issuer)					
Common Stock					
(Title of Class of Securities)					
029912201					
(CUSIP Number)					

Check the following box if a fee is being paid with this statement (A fee is not required only if the filing person: (1) has a previous statement on file reporting beneficial ownership of more than five percent of the class of securities described in Item 1; and (2) has filed no amendment subsequent thereto reporting beneficial ownership of five percent or less of such class.) (See Rule 13d-7.)

\*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

(Continued on following page(s))

Page 1 of 6 Pages CUSIP NO. 029912201 Page 2 of 6 Pages 13G Name of Reporting Person S.S. or I.R.S. Identification No. of Above Person T. ROWE PRICE ASSOCIATES, INC. 52-0556948 Check the Appropriate Box if a Member of a Group\* (a) \_ NOT APPLICABLE (b) \_ SEC Use Only Citizenship or Place of Organization

MARYLAND Number of

5 Sole Voting Power

Shares 15, 137, 043

Beneficially 6 Shared Voting Power

Owned By Each

NONE

Reporting 7 Sole Dispositive Power

Person

46,604,291

Item 3 The person filing this Schedule 13G is an:

X Investment Adviser registered under Section 203 of th Investment Advisers Act of 1940

Investment Company registered under Section 8 of the Investment Company Act of 1940

CUSIP 029912201

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Item 4 Ownership Deemed Outstanding And Beneficially

Units

Deemed

Beneficially

0wned

Directly

Total

Owned Directly

Subject to

Warrants &

Conversion

Privileges

(1)	PRICE A				
	(a)Amount Beneficially Owned (b)Percent of		46,400,182	475,609	46,875,791
	(c)Numb				11.0%
	units as to which				
	suc	h			
	per	son has:			
	(i)	*sole power to vote or to direct the vote	15,094,361	42,682	15,137,043
	(ii)	*shared power to vote or to direct the vote	-0-	-0-	-0-
	(iii)	*sole power to dispose or to direct the disposition of	46,128,682	475,609	46,604,291
	(iv)	*shared power to dispose or to direct the disposition			
	DULE 13G	of	-0-	-0-	-0-

Item 5 Ownership of Five Percent or Less of a Class.

X Not Applicable.

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This statement is being filed to report the fact that, as of the date of this report, the reporting person(s) has (have) ceased to be the beneficial owner of more than five percent of the class of securities.

Item 6 Ownership of More than Five Percent on Behalf of Another Person

(1) Price Associates does not serve as custodian of the assets of any of its clients; accordingly, in each instance only the client or the client's custodian or trustee bank has the right to receive dividends paid with respect to, and proceeds from the sale of, such securities.

The ultimate power to direct the receipt of dividends paid with respect to, and the proceeds from the sale of, such securities, is vested in the individual and institutional clients which Price Associates serves as investment adviser. Any and all discretionary authority which has been delegated to Price Associates may be revoked in whole or in part at any time.

Except as may be indicated if this is a joint filing with one of the registered investment companies sponsored by Price Associates which it also serves as investment adviser ("T. Rowe Price Funds"), not more than 5% of the class of such securities is owned by any one client subject to the investment advice of Price Associates.

(2) With respect to securities owned by any one of the T. Rowe Price Funds, only State Street Bank and Trust Company, as custodian for each of such Funds, has the right to receive dividends paid with respect to, and proceeds from the sale of, such securities. No other person is known to have such right, except that the shareholders of each such Fund participate proportionately in any dividends and distributions so paid.

Item 7 Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company.

Not Applicable.

Item 8 Identification and Classification of Members of the Group.

Not Applicable.

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Item 9 Notice of Dissolution of Group.

Not Applicable.

## Item 10 Certification.

By signing below I (we) certify that, to the best of my (our) knowledge and belief, the securities referred to above were acquired in the ordinary course of business and were not acquired for the purpose of and do not have the effect of changing or influencing the control of the issuer of such securities and were not acquired in connection with or as a participant in any transaction having such purpose or effect. T. Rowe Price Associates, Inc. hereby declares and affirms that the filing of this Schedule 13G shall not be construed as an admission that Price Associates is the beneficial owner of the securities referred to, which beneficial ownership is expressly denied.

Signature.

After reasonable inquiry and to the best of my (our) knowledge and belief, I (we) certify that the information set forth in this statement is true, complete and correct.

Dated: February 10, 2007

T. ROWE PRICE ASSOCIATES, INC.

By: /s/ Henry H. Hopkins Henry H. Hopkins, Vice President

Note:

This Schedule 13G, including all exhibits, must be filed with the Securities and Exchange Commission, and a copy hereof must be sent to the issuer by registered or certified mail not later than February 14th following the calendar year covered by the statement or within the time specified in Rule 13d-1(b)(2), if applicable.

1/31/2007