AMERICAN TOWER CORP /MA/

Form SC 13G/A February 13, 2012 **UNITED STATES** SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549 SCHEDULE 13G Under the Securities Exchange Act of 1934 (Amendment No. 6)* AMERICAN TOWER CORP CL A (Name of Issuer) **COMMON STOCK** (Title of Class of Securities) 029912201 (CUSIP Number) December 31, 2011 (Date of Event which Requires Filing of Statement)

Check the appropriate box to designate the Rule pursuant to which this Schedule is filed:

[x] Rule 13d - 1(b)

Rule 13d - 1(c)

Rule 13d - 1(d)

*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 disclosures provided in a prior cover page.

The information required on the remainder of this 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)

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CUSIP NO. 029912201 I3G Page 2 of 5 Pages

1 Name of Reporting Person	
S.S. or I.R.S. Identification No. of Abo	ove Person
T. ROWE PRICE ASSOCIATES, INC	C.
52-0556948	
2 Check the Appropriate Box if a Me	mber of a Group*
(a)	
NOT APPLICABLE (b)	
3	SEC Use Only
4	Citizenship or Place of Organization
MARYLAND	
Number of M Sole Voting Power	
**	
Shares 7,129,045	
BeneficiallyN Shared Voting Power	

<i>ক</i> ক
Owned By Each -0-
ReportingO Sole Dispositive Power
**
Person 27,557,461
With 8 Shared Dispositive Power
-0-
9 Aggregate Amount Beneficially Owned by Each Reporting Person
27,557,461
10 Check Box if the Aggregate Amount in Row (9) Excludes Certain Shares*
NOT APPLICABLE
11 Percent of Class Represented by Amount in Row 9
7.0%
12 Type of Reporting Person*
IA
*SEE INSTRUCTION BEFORE FILLING OUT!

**Any shares reported in Items 5 and 6 are also

reported in Item 7.

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Item 1(a) Name of Issuer:
Reference is made to page 1 of this Schedule 13G
Item 1(b) Address of Issuer's Principal Executive Offices:
116 HUNTINGTON AVE, 11TH FLOOR, BOSTON, MA 02116
Item 2(a) Name of Person(s) Filing:
(1) T. Rowe Price Associates, Inc. ("Price Associates")
(2)
Attached as Exhibit A is a copy of an agreement between the Persons Filing (as specified hereinabove) that thi Schedule 13G is being filed on behalf of each of them.
Attached as Exhibit A is a copy of an agreement between the Persons Filing (as specified hereinabove) that thi Schedule 13G is being filed on behalf of each of them.
Attached as Exhibit A is a copy of an agreement between the Persons Filing (as specified hereinabove) that thi
Attached as Exhibit A is a copy of an agreement between the Persons Filing (as specified hereinabove) that thi Schedule 13G is being filed on behalf of each of them. Item 2(b) Address of Principal Business Office:
Attached as Exhibit A is a copy of an agreement between the Persons Filing (as specified hereinabove) that thi Schedule 13G is being filed on behalf of each of them.
Attached as Exhibit A is a copy of an agreement between the Persons Filing (as specified hereinabove) that thi Schedule 13G is being filed on behalf of each of them. Item 2(b) Address of Principal Business Office: 100 E. Pratt Street, Baltimore, Maryland 21202
Attached as Exhibit A is a copy of an agreement between the Persons Filing (as specified hereinabove) that thi Schedule 13G is being filed on behalf of each of them. Item 2(b) Address of Principal Business Office:
Attached as Exhibit A is a copy of an agreement between the Persons Filing (as specified hereinabove) that thi Schedule 13G is being filed on behalf of each of them. Item 2(b) Address of Principal Business Office: 100 E. Pratt Street, Baltimore, Maryland 21202

(2)		
Item 2(d)	Title of Class of Secu	rities:
Reference i	is made to page 1 of t	his Schedule 13G
Item 2(e)	CUSIP Number: 0299	912201
Item 3 The	e person filing this Sc	hedule 13G is an:
X	Investment A	dviser registered under Section 203 of the Investment Advisers Act of 1940
	Investment (Company registered under Section 8 of the Investment Company Act of 1940
	Item 4	Reference is made to Items 5-11 on page 2 of this Schedule 13G.

SCHEDULE 13G
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Item 5 Ownership of Five Percent or Less of a Class.
X Not Applicable.
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
Price Associates does not serve as custodian of the assets of any of its clients; accordingly, in each instance only (1)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.
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 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 Cer	rtification.
By signing below I (we) certify that, to the best of my (our) knowledge and were acquired in the ordinary course of business and were not acquired for the changing or influencing the control of the issuer of such securities and were participant in any transaction having such purpose or effect. T. Rowe Price affirms that the filing of Schedule 13G shall not be construed as an admission owner of the securities referred to, which beneficial ownership is expressly of	the purpose of and do not have the effect of not acquired in connection with or as a Associates, Inc. hereby declares and on that Price Associates is the beneficial
Signature.	
After reasonable inquiry and to the best of my (our) knowledge and belief, I in this statement is true, complete and correct.	(we) certify that the information set forth
Dated: February 14, 2012	
T. ROWE PRICE ASSOCIATES, INC.	

By: /s/ David Oestreicher
David Oestreicher, Vice President

This Schedule 13G, including all exhibits, must be filed with the Securities and Exchange Commission, and a Note: 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.

12/31/2011