HMS HOLDINGS CORP Form SC 13G February 07, 2017

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UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549
SCHEDULE 13G
Under the Securities Exchange Act of 1934
(Amendment No. )
HMS HOLDINGS CORP
(Name of Issuer)
COMMON STOCK
(Title of Class of Securities)
40425J101
(CUSIP NUMBER)
December 31, 2016
(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)
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- 1. Name of Reporting Person
 T. ROWE PRICE ASSOCIATES, INC.
 52-0556948
- 2. Check the Appropriate Box if a Member of a Group ${\tt NOT\ APPLICABLE}$
- 3. SEC Use Only

Number of Shares Beneficially Owned by Each Reporting Person With

5. Sole Voting Power* 957,740

6. Shared Voting Power* 0

7. Sole Dispositive Power* 6,819,568

8. Shared Dispositive Power 0

- 9. Aggregate Amount Beneficially Owned by Each Reporting Person 6,819,568
- 10. Check Box if the Aggregate Amount in Row (9) Excludes Certain Shares NOT $\mbox{APPLICABLE}$
- 11. Percent of Class Represented by Amount in Row 9 8.0%
- 12. Type of Reporting Person

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Item 1(a) Name of Issuer:
HMS HOLDINGS CORP
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Item 1(b) Address of Issuer's Principal Executive Offices:
5615 HIGH POINT DRIVE, IRVING, TEXAS 75038

Item 2(a) Name of Person(s) Filing:
(1) T. ROWE PRICE ASSOCIATES, INC. ("Price Associates")

Item 2(b) Address of Principal Business Office:

^{*}Any shares reported in Items 5 and 6 are also reported in Item 7.

100 E. Pratt Street, Baltimore, MD 21202

Item 2(c) Citizenship or Place of Organization:
(1) Maryland

Item 2(d) Title of Class of Securities: COMMON STOCK

Item 2(e) Cusip Number: 40425J101

Item 3: The person filing this Schedule 13G is an:
X Investment Adviser registered under Section 203 of the Investment
 Advisers Act of 1940

Item 4: Reference is made to Items 5-11 on the preceding pages of this Schedule 13G.

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 the 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
- Item 9: Notice of Dissolution of Group
 Not Applicable
- Item 10: Certification

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired in the ordinary course of business and were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect. T. Rowe Price Associates, Inc. hereby declares and affirms that the filing of 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 knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

T. ROWE PRICE ASSOCIATES, INC.

Date: February 7, 2017

Signature: /s/ David Oestreicher

Name & Title: David Oestreicher, Vice President

12/31/2016

th: 1; border-right-width: 1; border-bottom-width: 1">1.Title of Security

(Instr. 3)2. Transaction Date (Month/Day/Year)2A. Deemed Execution Date, if any (Month/Day/Year)3. Transaction Code

(Instr. 8)4. Securities Acquired (A) or Disposed of (D)

(Instr. 3, 4 and 5)5. Amount of Securities Beneficially Owned Following Reported Transaction(s)

(Instr. 3 and 4)6. Ownership Form: Direct (D) or Indirect (I)

(Instr. 4)7. Nature of Indirect Beneficial Ownership

(Instr. 4)CodeVAmount(A) or (D)Price

1. Title of

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

3. Transaction Date 3A. Deemed

Persons who respond to the collection of SEC 1474 information contained in this form are not (9-02)required to respond unless the form displays a currently valid OMB control number.

6. Date Exercisable and Expiration 7. Title and A

5. Number of

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

Derivative Security (Instr. 3)	Conversion or Exercise Price of Derivative Security	(Month/Day/Year)	Execution Date, if any (Month/Day/Year)	Transaction Code (Instr. 8)		onDerivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		Date (Month/Day/Year)		Underlying So (Instr. 3 and 4
				Code V	v	(A) (D)	Date Exercisable	Expiration Date	Title	
Performance Rights	\$ 0 (1)	05/15/2007		A	V	16.312		12/31/2007(2)	12/31/2007(2)	Common Stock

4.

Reporting Owners

Reporting Owner Name / Address	Relationships					
	Director	10% Owner	Officer	Other		

URBANEK DENNIS M 1505 PINE VIEW LANE SVP Engineering & Environ. WAUSAU, WI 54403-2385

Signatures

Sherri L. Craker, 06/04/2007 Attorney-in-Fact

**Signature of Reporting Person Date

Reporting Owners 5

Explanation of Responses:

- * If the form is filed by more than one reporting person, see Instruction 4(b)(v).
- ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).
- (1) Converts to common stock on a one-for-one basis.
- (2) Performance conditions satisfied on February 20, 2007; rights vest if employment continues until December 31, 2007.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.