

HAGELSTEIN DAVID A
 Form 4
 September 23, 2010

FORM 4

**UNITED STATES SECURITIES AND EXCHANGE COMMISSION
 Washington, D.C. 20549**

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person *
 HAGELSTEIN DAVID A

2. Issuer Name and Ticker or Trading Symbol
 ROCKWELL MEDICAL TECHNOLOGIES INC [RMTI]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)
 36801 WOODWARD AVE, STE 313
 (Street)

3. Date of Earliest Transaction (Month/Day/Year)
 09/21/2010

___ Director ___X___ 10% Owner
 ___ Officer (give title below) ___ Other (specify below)

BIRMINGHAM, MI 48009

(City) (State) (Zip)

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)
 X Form filed by One Reporting Person
 ___ Form filed by More than One Reporting Person

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

| 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 Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|----------------------------------------------------|--------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------|
| | | | Code | V | Amount | (A) or (D) | Price |
| Common Stock | 09/21/2010 | | P | | 3,500 | A | \$ 7.35 |
| | | | | | 1,854,400 | (1) | I |
| | 09/21/2010 | | P | | 14,152 | A | |
| | | | | | 1,868,552 | (2) | I |

Owned by self and by self as trustee of the David A. Hagelstein Charitable Remainder Unitrust.

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| | | | | | | | | | |
|--------------|------------|--|---|-------|---|---------|--------------------------|---|------------------------------------------------------------------------------------------------|
| Common Stock | | | | | | | \$ 6.54 | | Owned by self and by self as trustee of the David A. Hagelstein Charitable Remainder Unitrust. |
| Common Stock | 09/22/2010 | | P | 5,500 | A | \$ 7.35 | 1,874,052 ⁽³⁾ | I | Owned by self and by self as trustee of the David A. Hagelstein Charitable Remainder Unitrust. |

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

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(9-02)

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

| 1. Title of Derivative Security (Instr. 3) | 2. Conversion or Exercise Price of Derivative Security | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any (Month/Day/Year) | 4. Transaction Code (Instr. 8) | 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | 6. Date Exercisable and Expiration Date (Month/Day/Year) | 7. Title and Amount of Underlying Securities (Instr. 3 and 4) | 8. Price of Derivative Security (Instr. 5) | 9. Nu Deriv Secur Bene Own Follo Repo Trans (Instr |
|--------------------------------------------|--------------------------------------------------------|--------------------------------------|----------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------|----------------------------------------------------------------------------|
| | | | | | | Date Exercisable | Expiration Date | Title | Amount or Number of Shares |
| | | | | | | Code | V (A) (D) | | |

Reporting Owners

Reporting Owner Name / Address Relationships

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Director 10% Owner Officer Other

HAGELSTEIN DAVID A
36801 WOODWARD AVE
STE 313
BIRMINGHAM, MI 48009

X

Signatures

DAVID A.

HAGELSTEIN

09/23/2010

 **Signature of Reporting
Person

Date

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) Of the 1,854,400 shares of common stock, 1,406,348 are owned directly and 448,052 are owned by self as trustee of the David Hagelstein Charitable Remainder Unitrust.
- (2) Of the 1,868,552 shares of common stock, 1,420,500 are owned directly and 448,052 are owned by self as trustee of the David Hagelstein Charitable Remainder Unitrust.
- (3) Of the 1,874,052 shares of common stock, 1,426,000 are owned directly and 448,052 are owned by self as trustee of the David Hagelstein Charitable Remainder Unitrust.

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.