

SECURITIES AND EXCHANGE COMMISSION

FORM SC 13G

Schedule filed to report acquisition of beneficial ownership of 5% or more of a class of equity securities by passive investors and certain institutions

Filing Date: **2007-12-10**
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SUBJECT COMPANY

ROCKWELL MEDICAL TECHNOLOGIES INC

CIK: **1041024** | IRS No.: **383317208** | State of Incorporation: **MI** | Fiscal Year End: **1231**
Type: **SC 13G** | Act: **34** | File No.: **005-55735** | Film No.: **071294515**
SIC: **3845** Electromedical & electrotherapeutic apparatus

Mailing Address
30142 S WIXOM RD
WIXOM MI 48393

Business Address
30142 S WIXOM RD
WIXOM MI 48393
2489609009

FILED BY

RA CAPITAL MANAGEMENT, LLC

CIK: **1346824** | IRS No.: **830406777** | State of Incorporation: **DE** | Fiscal Year End: **1231**
Type: **SC 13G**

Mailing Address
111 HUNTINGTON AVE, SUITE 610
BOSTON MA 02199

Business Address
111 HUNTINGTON AVE, SUITE 610
BOSTON MA 02199
617-778-2512

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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.)***

ROCKWELL MEDICAL TECHNOLOGIES, INC.

(Name of Issuer)

Common Stock, no par value per share
(Title of Class of Securities)

774374102
(CUSIP Number)

November 28, 2007
(Date of Event Which Requires Filing of this Statement)

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

- 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 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).

1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY). RA Capital Management, LLC	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC USE ONLY	
4	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:	5	SOLE VOTING POWER 1,366,667
	6	SHARED VOTING POWER 0
	7	SOLE DISPOSITIVE POWER 1,366,667
	8	SHARED DISPOSITIVE POWER 0
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 1,366,667	
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) <input type="checkbox"/>	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 9.9%	
12	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) IA	

1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY). Richard H. Aldrich	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC USE ONLY	
4	CITIZENSHIP OR PLACE OF ORGANIZATION USA	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:	5	SOLE VOTING POWER 0
	6	SHARED VOTING POWER 1,366,667
	7	SOLE DISPOSITIVE POWER 0
	8	SHARED DISPOSITIVE POWER 1,366,667
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 1,366,667	
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) <input type="checkbox"/>	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 9.9%	
12	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) IN	

1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY). Peter Kolchinsky	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC USE ONLY	
4	CITIZENSHIP OR PLACE OF ORGANIZATION USA	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:	5	SOLE VOTING POWER 0
	6	SHARED VOTING POWER 1,366,667
	7	SOLE DISPOSITIVE POWER 0
	8	SHARED DISPOSITIVE POWER 1,366,667
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 1,366,667	
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) <input type="checkbox"/>	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 9.9%	
12	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) IN	

1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY). RA Capital Biotech Fund, L.P.	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC USE ONLY	
4	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:	5	SOLE VOTING POWER 1,350,267
	6	SHARED VOTING POWER 0
	7	SOLE DISPOSITIVE POWER 1,350,267
	8	SHARED DISPOSITIVE POWER 0
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 1,350,267	
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) <input type="checkbox"/>	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 9.8%	
12	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) PN	

1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY). RA Capital Biotech Fund II, L.P.	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC USE ONLY	
4	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:	5	SOLE VOTING POWER 16,400
	6	SHARED VOTING POWER 0
	7	SOLE DISPOSITIVE POWER 16,400
	8	SHARED DISPOSITIVE POWER 0
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 16,400	
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) <input type="checkbox"/>	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) .1%	
12	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) PN	

Item 1.

- (a) **Name of Issuer:** Rockwell Medical Technologies, Inc. (the "Issuer").
- (b) **Address of the Issuer's Principal Executive Offices:** 30142 Wixom Road, Wixom, MI 48393.

Item 2.

- (a) **Name of Person Filing:** This joint statement on Schedule 13G is being filed by Richard H. Aldrich, Peter Kolchinsky, RA Capital Management, LLC, RA Capital Biotech Fund, L.P. and RA Capital Biotech Fund II, L.P., who are collectively referred to as the "Reporting Persons." Mr. Aldrich and Mr. Kolchinsky (together, the "Managers") are the managers of RA Capital Management, LLC ("Capital"), which is the sole general partner of RA Capital Biotech Fund, L.P. ("Fund I") and RA Capital Biotech Fund II, L.P. ("Fund II"). The Reporting Persons have entered into a Joint Filing Agreement, dated as of the date hereof, a copy of which is filed with this Schedule 13G as Exhibit 1 (which is incorporated herein by reference), pursuant to which the Reporting Persons have agreed to file this statement jointly in accordance with the provisions of Rule 13d-1(k) under the Act.
- (b) **Address of Principal Business Office:** The principal business office of the Reporting Persons with respect to the shares reported hereunder is 111 Huntington Avenue, Suite 610, Boston, MA 02199.
- (c) **Citizenship:** Capital is a Massachusetts limited liability company. Each of Fund I and Fund II is a Delaware limited partnership. The Managers are U.S. citizens.
- (d) **Title and Class of Securities:** Common stock, no par value per share ("Common Stock")
- (e) **CUSIP Number:** 774374102

Item 3. If this statement is filed pursuant to §§240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:

Not applicable

Item 4. Ownership

In the aggregate, the Reporting Persons beneficially own 1,366,667 shares of the Common Stock of the Issuer, representing approximately 9.9% of such class of securities. The Reporting Persons have the right to purchase an additional 683,334 shares of Common Stock pursuant to the terms of a warrant issued on November 28, 2007, however pursuant to the terms of such warrant, such shares are not exercisable within 60 days of the date of this filing.

The beneficial ownership of each Reporting Person is as follows: (i) Fund I beneficially owns 1,350,267 shares of Common Stock representing approximately 9.8% of the class, (ii) Fund II beneficially owns 16,400 shares of Common Stock representing approximately .1% of the class

and (iii) Capital, as the sole general partner of each of Fund I and Fund II, and Mr. Aldrich and Mr. Kolchinsky as the managers of Capital, each beneficially own 1,366,667 shares of Common Stock of the Issuer representing approximately 9.9% of the class. The percentage of the Common Stock beneficially owned by each Reporting Person is based on a total of 13,793,086 shares of Common Stock of the Issuer outstanding as of December 4, 2007, representing the number of shares outstanding as reported in the most recent quarterly report of the Issuer on Form 10-Q for the fiscal quarter ended October 31, 2007, together with the aggregate number of shares of Common Stock issued pursuant to a private placement as reported in the current report of the Issuer on Form 8-K filed on December 4, 2007.

Each of Fund I and Fund II has the power to vote and dispose of the shares of Common Stock beneficially owned by such entity (as described above). Capital, as the sole general partner of each of Fund I and Fund II, has the sole authority to vote and dispose of all of the shares of Common Stock reported in this Schedule 13G. The Managers, by virtue of their position as managers of Capital, have the shared authority to vote and dispose of all of the shares of Common Stock reported in this joint statement Schedule 13G.

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

Not applicable

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

Not applicable

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

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 hereby certify that, to the best of my knowledge and belief, the securities referred to above 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.

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.

DATE: December 7, 2007

RA CAPITAL BIOTECH FUND, L.P.

By: /s/ Richard H. Aldrich
Richard H. Aldrich
Manager

RA CAPITAL BIOTECH FUND II, L.P.

By: /s/ Richard H. Aldrich
Richard H. Aldrich
Manager

RA CAPITAL MANAGEMENT, LLC

By: /s/ Richard H. Aldrich
Richard H. Aldrich
Manager

RICHARD H. ALDRICH

/s/ Richard H. Aldrich

PETER KOLCHINSKY

/s/ Peter Kolchinsky

Exhibit 1

JOINT FILING AGREEMENT

Pursuant to Rule 13d-1(k)(1) under the Securities Exchange Act of 1934, as amended, the undersigned hereby agrees, as of December 7, 2007, that only one statement containing the information required by Schedule 13G, and each amendment thereto, need be filed with respect to the ownership by each of the undersigned of shares of Common Stock of Rockwell Medical Technologies, Inc., and such statement to which this Joint Filing Agreement is attached as Exhibit 1 is filed on behalf of each of the undersigned.

RA CAPITAL BIOTECH FUND, L.P.

By: /s/ Richard H. Aldrich

Richard H. Aldrich
Manager

RA CAPITAL BIOTECH FUND II, L.P.

By: /s/ Richard H. Aldrich

Richard H. Aldrich
Manager

RA CAPITAL MANAGEMENT, LLC

By: /s/ Richard H. Aldrich

Richard H. Aldrich
Manager

RICHARD H. ALDRICH

/s/ Richard H. Aldrich

PETER KOLCHINSKY

/s/ Peter Kolchinsky