

ROCKWELL MEDICAL TECHNOLOGIES INC

Form S-3

January 10, 2008

Table of Contents

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

**FORM S-3
REGISTRATION STATEMENT
UNDER
THE SECURITIES ACT OF 1933**

ROCKWELL MEDICAL TECHNOLOGIES, INC.

(Exact Name of Registrant as Specified in Its Charter)

Michigan
**(State or Other Jurisdiction of Incorporation or
Organization)**

38-3317208
(I.R.S. Employer Identification Number)

30142 Wixom Road
Wixom, Michigan 48393
(248) 960-9009
**(Address, Including Zip Code, and Telephone Number, Including Area Code, of Registrant's Principal
Executive Offices)**

Robert L. Chioini
President and Chief Executive Officer
30142 Wixom Road
Wixom, Michigan 48393
(248) 960-9009
(Name, Address, Including Zip Code, and Telephone Number, Including Area Code, of Agent for Service)

Copy to:
Mark A. Metz
Dykema Gossett PLLC
400 Renaissance Center
Detroit, Michigan 48243
Telephone: (313) 568-5434

Approximate date of commencement of proposed sale to the public: As soon as practicable after the effective date hereof.

If the only securities being registered on this form are being offered pursuant to dividend or interest reinvestment plans, please check the following box.

If any of the securities being registered on this form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, other than securities offered only in connection with dividend or interest reinvestment plans, check the following box.

If this form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, please check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering. _____

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If this form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering. _____

If this Form is a registration statement pursuant to General Instruction I.D. or a post-effective amendment thereto that shall become effective upon filing with the Commission pursuant to Rule 462(e) under the Securities Act, check the following box.

If this Form is a post-effective amendment to a registration statement filed pursuant to General Instruction I.D. filed to register additional securities or additional classes of securities pursuant to Rule 413(b) under the Securities Act, check the following box.

If delivery of the prospectus is expected to be made pursuant to Rule 434, please check the following box.

Table of Contents**CALCULATION OF REGISTRATION FEE**

Title of each class of securities to be registered	Amount To be Registered(1)	Proposed Maximum Offering Price Per Unit (2)	Proposed Maximum Aggregate Offering Price	Amount of Registration Fee
Common Stock, no par value	3,317,506	\$ 7.02	\$ 23,288,892	\$916.00

(1) Consists of

- (a) 2,158,337 shares of common stock issued to investors in a private placement on November 28, 2007,
- (b) 1,159,169 shares of common stock issuable upon the exercise of warrants issued to investors in private placements on November 28, 2007, and (c) an indeterminate number of additional shares of common stock as may from time to time be issued with respect to the foregoing securities as a result of stock splits, stock dividends, reclassifications, recapitalizations, combinations or similar events, which shares

shall be deemed
registered
hereunder
pursuant to
Rule 416 under
the Securities
Act.

- (2) Estimated solely
for purposes of
calculating the
registration fee
pursuant to Rule
457(c) under the
Securities Act,
based on average
of high and low
price per share of
the common
stock as reported
on the Nasdaq
Global Market on
January 9, 2008.

The Registrant hereby amends this Registration Statement on such date or dates as may be necessary to delay its effective date until the Registrant shall file a further amendment which specifically states that this Registration Statement shall thereafter become effective in accordance with Section 8(a) of the Securities Act of 1933 or until the Registration Statement shall become effective on such date as the Commission, acting pursuant to said Section 8(a), may determine.

Table of Contents

The information in this prospectus is not complete and may be changed. The selling shareholders named in this prospectus may not sell these securities until the registration statement filed with the Securities and Exchange Commission is effective. This prospectus is not an offer to sell these securities and the selling shareholders named in this prospectus are not soliciting offers to buy these securities in any jurisdiction where the offer or sale is not permitted.

Subject to completion, dated January 10, 2008

PROSPECTUS

3,317,506 SHARES OF COMMON STOCK

This Prospectus relates to resales of shares of our common stock, including shares of common stock issuable upon the exercise of warrants, that we issued to the selling shareholders identified in this prospectus (collectively, the Selling Shareholders) in connection with (i) our private placement of securities on November 28, 2007 and (ii) our private placement of securities to a service provider on November 28, 2007. We will not receive any proceeds from the sale of shares of our common stock by Selling Shareholders. Upon any exercise for cash of the warrants, the warrant holders will pay us an exercise price of such warrants. We have agreed to pay certain expenses in connection with the registration of the shares and to indemnify the Selling Shareholders against certain liabilities.

The Selling Shareholders identified in this prospectus, or their pledgees, donees, transferees or other successors-in-interest, may offer the shares from time to time through public or private transactions at prevailing market prices, at prices related to prevailing market prices or at privately negotiated prices.

Our common stock is listed on the Nasdaq Global Market and traded under the symbol RMTI. On January 9, 2008, the closing sale price of our common stock on Nasdaq was \$6.97 per share. You are urged to obtain current market quotations for the common stock.

Investing in our common stock involves a high degree of risk. See Risk Factors beginning on page 6.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or determined if this prospectus is truthful or complete. Any representation to the contrary is a criminal offense.

The date of this prospectus is _____, 2008.

TABLE OF CONTENTS

	Page
<u>Where You Can Get More Information</u>	2
<u>Documents Incorporated by Reference</u>	2
<u>Prospectus Summary</u>	4
<u>The Offering</u>	5
<u>Cautionary Statement Regarding Forward-Looking Statements</u>	5
<u>Risk Factors</u>	6
<u>Use of Proceeds</u>	10
<u>Selling Shareholders</u>	10
<u>Plan of Distribution</u>	12
<u>Legal Matters</u>	15
<u>Experts</u>	15

Rockwell Medical Technologies, Inc.'s principal executive offices are located at 30142 Wixom Road, Wixom, Michigan 48393, our telephone number at that address is (248) 960-9009 and our Internet address is www.rockwellmed.com. The information on our Internet website is not incorporated by reference in this prospectus, and you should not consider it to be a part of this document. Our website address is included as an inactive textual reference only. Unless the context otherwise requires references in this prospectus to Rockwell, we, us, and our reference to Rockwell Medical Technologies, Inc.

We have not authorized anyone to provide you with information different from that contained or incorporated by reference in this prospectus. The Selling Shareholders are offering to sell, and seeking offers to buy, shares of our common stock only in jurisdictions where offers and sales are permitted. The information contained in this prospectus is accurate only as of the date of this prospectus, regardless of the time of delivery of this prospectus or of any sale of common stock.

WHERE YOU CAN GET MORE INFORMATION

We file annual, quarterly and current reports, proxy statements and other information with the Securities and Exchange Commission (the "SEC"). You can inspect and copy such reports at the SEC's Public Reference Room at 100 F Street, N.E., Washington D.C. 20549. You may obtain information on the operation of the Public Reference Room by calling the SEC at 1-800-SEC-0330. The SEC also maintains an Internet site at www.sec.gov that contains reports, proxy and information statements and other information regarding issuers that file electronically with the SEC, including Rockwell.

We have filed with the SEC a Registration Statement on Form S-3 to register the common shares that are being offered in this Prospectus. This prospectus is part of the Registration Statement. This prospectus does not include all of the information contained in the Registration Statement. For further information about us and the common shares offered in this prospectus, you should review the Registration Statement. You can inspect or copy the Registration Statement, at prescribed rates, at the SEC's public reference facilities at the address listed above.

DOCUMENTS INCORPORATED BY REFERENCE

The SEC allows Rockwell to incorporate by reference the information it files with the SEC. This permits us to disclose important information to you by referencing these filed documents. Any information referenced in this way is considered part of this prospectus, and any information filed with the SEC subsequent to this prospectus will automatically update and supersede this information. Rockwell incorporates by reference the documents listed below which have been filed with the SEC:

Annual Report on Form 10-KSB for the fiscal year ended December 31, 2006.

Quarterly Reports on Form 10-Q for the fiscal quarters ended March 31, 2007, June 30, 2007, and September 30, 2007.

Current Reports on Form 8-K filed May 31, 2007, October 9, 2007, December 4, 2007 and December 20, 2007.

Table of Contents

The description of our common shares included in our prospectus, dated July 24, 1997, included in our registration statement on Form SB-2 filed with the SEC on July 24, 1997, under the caption Description of Securities on pages 34 through 38 of the prospectus and incorporated by reference into our registration statement on Form 8-A filed with the Securities and Exchange Commission on January 23, 1998, including any amendment or reports filed for the purpose of updating such description.

In addition, all documents filed by us under Section 13(a), 13(c), 14 or 15(d) of the Securities Exchange Act of 1934 after the date of this prospectus but before the termination of this offering are deemed to be incorporated by reference into this prospectus and will constitute a part of the is prospectus from the date of filing of those documents.

Any statement contained in a document incorporated by reference in this prospectus will be considered to be modified or superseded for purposes of this prospectus to the extent that a statement contained in this prospectus or in any subsequently filed document that is incorporated by reference modifies or supersedes such statement. Any statement that is modified or superseded will not, except as so modified or superseded, constitute a part of this prospectus.

Rockwell will provide without charge, upon written or oral request, a copy of any or all of the documents which are incorporated by reference in this prospectus, including any exhibits which are specifically incorporated by reference into such documents. Requests should be directed to Thomas E. Klema, Secretary, at our principal executive offices, located at 30142 Wixom Road, Wixom, Michigan, 48393, (telephone number: (248) 960-9009).

Table of Contents

PROSPECTUS SUMMARY

This summary highlights important features of this offering and the information included or incorporated by reference in this prospectus. This summary does not contain all of the information that you should consider before investing in our common stock. You should read the entire prospectus carefully, especially the risks of investing in our common stock discussed under Risk Factors.

ROCKWELL MEDICAL TECHNOLOGIES, INC.

We manufacture hemodialysis concentrate solutions and dialysis kits, and we sell, distribute and deliver these and other ancillary hemodialysis products primarily to hemodialysis providers in the United States as well as internationally primarily in Latin America, Asia and Europe. Hemodialysis duplicates kidney function in patients with failing kidneys also known as End Stage Renal Disease (ESRD). ESRD is an advanced stage of chronic kidney disease characterized by the irreversible loss of kidney function. Without properly functioning kidneys, a patient's body cannot get rid of excess water and toxic waste products. Without frequent and ongoing dialysis treatments these patients would not survive.

Our dialysis solutions (also known as dialysate) are used to maintain life, removing toxins and replacing nutrients in the dialysis patient's bloodstream. We have licensed and are currently developing proprietary renal drug therapies for both iron-delivery and carnitine/vitamin-delivery, utilizing dialysate as the delivery mechanism. These exclusive renal drug therapies support disease management initiatives to improve the quality of care for dialysis patients and are designed to deliver safe and effective therapy to patients while decreasing nursing time and supply cost. The Company offers the proprietary Dri-Sate® Dry Acid Concentrate Mixing System, RenalPure® Liquid Acid Concentrate, SteriLyte® Liquid Bicarbonate Concentrate, RenalPure® Powder Bicarbonate Concentrate, Blood Tubing Sets, Fistula Needles and a wide range of ancillary dialysis items.

Hemodialysis treatments are generally performed in independent clinics or hospitals with the majority of dialysis services performed by regional and national for profit dialysis chains. The two largest national for-profit dialysis chains service approximately 60% of the domestic hemodialysis market. According to the latest industry statistics published by the U.S. Renal Data Systems (USRDS), 341,000 patients in the United States were receiving dialysis treatments at the end of 2005. The domestic dialysis industry has experienced steady patient population growth over the last two decades. In the last five years, however, the patient growth rate has decreased with the patient population increasing between 3-5% per year. Population segments with the highest incidence of ESRD are also among the fastest growing within the U.S. population including the elderly, Hispanic and African-American population segments. Recent U.S. demographic projections indicate that the incidence of ESRD is expected to increase in the years ahead and will exceed current incidence levels.

ESRD incidence rates vary by country with some higher and some lower than the United States. Based on industry reports, the global ESRD population is estimated to be over 2 million and to be growing approximately 5-6% annually. The three major dialysis markets are the United States, the European Union and Japan representing approximately 60% of the global treatments based on industry estimates.

Our strategy is to develop our dialysis concentrate and supply business and to develop drugs, nutrients and vitamins to be delivered by our dialysis concentrate products. Our long term objectives are to increase our market share, expand our product line, expand our geographical selling territory and improve our profitability by implementing the following strategies:

- increasing our revenues through new innovative products, such as our Dri-Sate® Dry Acid Concentrate Mixing System and SteriLyte® Liquid Bicarbonate Concentrate,

- gaining FDA approval to market innovative products such as iron supplemented dialysate,

- acting as a single source supplier to our customers for the concentrates, chemicals and supplies necessary to support a hemodialysis provider's operation,

- increasing our revenues by expanding our ancillary product line,

offering our customers a higher level of delivery and customer service by using our own delivery vehicles and drivers, and

expanding our market share in target regions, including regions where our proximity to customers will provide us with a competitive cost advantage and allow us to provide superior customer service levels.

Table of Contents

THE OFFERING

Common Stock offered by Selling Shareholders	3,317,506 shares of our common stock, including 1,159,169 shares issuable upon the exercise of warrants.
Use of proceeds	Proceeds received from the issuance of shares upon exercise of warrants will be used for general corporate purposes. We will not receive any proceeds from the sale of shares in this offering by the Selling Shareholders.
Nasdaq Global Market symbol	RMTI

CAUTIONARY STATEMENT REGARDING FORWARD-LOOKING STATEMENTS

This prospectus contains forward-looking statements relating to our anticipated future financial condition, operating results, cash flows and our current business plans. When we use words such as may, might, will, should, believe, expect, anticipate, estimate, continue, predict, forecast, projected, intend or similar expressions, or make regarding our intent, belief, or current expectations, we are making forward-looking statements.

These forward-looking statements represent our outlook only as of the date of this prospectus. We claim the protection of the safe harbor for forward-looking statements contained in the Private Securities Litigation Reform Act of 1995 for all of our forward-looking statements. While we believe that our forward-looking statements are reasonable, you should not place undue reliance on any such forward-looking statements, which are based on information available to us on the date of this prospectus. Because these forward-looking statements are based on estimates and assumptions that are subject to significant business, economic and competitive uncertainties, many of which are beyond our control or are subject to change, actual results could be materially different. Factors that might cause such a difference include, without limitation, the risks and uncertainties discussed in this prospectus, including under Risk Factors section beginning on page 6, and in our reports filed from time to time with the Securities and Exchange Commission. Other factors not currently anticipated may also materially and adversely affect our results of operations, cash flows and financial position. There can be no assurance that future results will meet expectations. While we believe that the forward-looking statements in this prospectus are reasonable, you should not place undue reliance on any forward-looking statement. We do not undertake, and expressly disclaim, any obligation to update or alter any statements whether as a result of new information, future events or otherwise, except as may be required by applicable law.

Table of Contents

RISK FACTORS

Investing in our common stock involves a high degree of risk. You should carefully consider the risks and uncertainties described below before purchasing our common stock. The risks and uncertainties described below are not the only ones facing our company. Additional risks and uncertainties may also impair our business operations. If any of the following risks actually occur, our business, financial condition or results of operations would likely suffer. In that case, the trading price of our common stock could fall, and you may lose all or part of the money you paid to buy our common stock.

RISKS RELATED TO OUR BUSINESS

The dialysis provider market is highly concentrated in national and regional dialysis chains that account for the majority of our domestic revenue.

Our revenue is highly concentrated in a few customers and the loss of any of those customers could adversely affect our results. If we were to lose a significant portion of our business with major national and regional dialysis chains, it could have a substantial negative impact on our cash flow and operating results. If we were to lose a substantial portion of our business, it may have a detrimental impact on our ability to continue our operations in their current form or to continue to execute our business strategy. If we lost a substantial portion of our business, we would be required to take actions to conserve our cash resources and to mitigate the impact of any such losses on our business operations.

We operate in a very competitive market against substantially larger competitors with greater resources.

There is intense competition in the hemodialysis product market and most of our competitors are large diversified companies which have substantially greater financial, technical, manufacturing, marketing, research and development and management resources than we do. We may not be able to successfully compete with these other companies. Our national competitors have historically used product bundling and low pricing as marketing techniques to capture market share of the products we sell and as we do not manufacture or sell the same breadth of products as our competitors, we may be at a disadvantage in competing against their marketing strategies.

Our new drug product requires FDA approval and expensive clinical trials before it can be marketed.

We are seeking FDA approval for SFP, a drug used in the treatment of anemia. Obtaining FDA approval for any drug is expensive and can take a long time. We may not be successful in obtaining FDA approval for SFP. The FDA may change, expand or alter its requirements for testing which may increase the scope, duration and cost of our clinical development plan. Clinical trials are expensive and time consuming to complete, and we may not be able to raise sufficient funds to complete the clinical trials to obtain marketing approval. Our clinical trials might not prove successful. In addition, the FDA may order the temporary or permanent discontinuation of a clinical trial at any time. Many products that undergo clinical trials are never approved for patient use. Thus, it is possible that our new proprietary products may never be approved to be marketed. If we are unable to obtain marketing approval, our entire investment in new products may be worthless and our licensing rights could be forfeited.

Even if our new drug product is approved by the FDA it may not be successfully marketed.

Several drugs currently dominate treatment for iron deficiency and new drugs treating this indication will have to compete against existing products. It may be difficult to gain market acceptance of a new product. Nephrologists, anemia managers and dialysis chains may be slow to change their clinical practice protocols for new products or may not change their protocols at all.

Dialysis providers are dependent upon government reimbursement practices for the majority of their revenue. Even if we obtain FDA approval for our new product, there is no guarantee that our customers would receive reimbursement for the new product, even though the current treatment method is reimbursed by the government. Without such reimbursement, it is unlikely that our customers would adopt a new treatment method. There is a risk that our new product may not receive reimbursement or may not receive the same level of reimbursement that is currently in place.

We depend on government funding of healthcare.

Many of our customers receive the majority of their funding from the government and are supplemented by payments from private health care insurers. Our customers depend on Medicare funding to be viable businesses. If Medicare funding were to be materially decreased, our customers would be severely impacted and could be unable to pay us.

Table of Contents

We may not be successful in improving our gross profit margins and our business may remain unprofitable.

Our products are distribution intensive resulting in a high cost to deliver relative to the selling prices of our products. As we increase our business in certain markets and regions, which are further from our manufacturing facilities than we have historically served, we may incur additional costs that are greater than the additional revenue generated from these initiatives. Our customer mix may change to a less favorable customer base with lower gross profit margins. Our competitors have often used bundling techniques to sell a broad range of products and have often offered low prices on dialysis concentrate products to induce customers to purchase their other higher margin products such as dialysis machines and dialyzers. It may be difficult for us to raise prices due to these competitive pressures. Our suppliers may increase their prices faster than we are able to raise our prices to offset such increases. We may have limited ability to gain a raw material pricing advantage by changing vendors for certain raw materials. As we increase our manufacturing and distribution infrastructure we may incur costs for an indefinite period that are greater than the incremental revenue we derive from these expansion efforts. The cost of diesel fuel represents a significant operating cost for us. If oil costs continue to increase or if oil prices spike upward, we may be unable to recover those increased costs through higher pricing.

Orders from our international distributors may not result in recurring revenue.

Our revenue from international distributors may not recur consistently or may not recur at all. Such revenue is often dependent upon government funding in those nations and there may be local, regional or geopolitical changes that may impact funding of healthcare expenditures in those nations.

We depend on key personnel.

Our success depends heavily on the efforts of Robert L. Chioini, our President and Chief Executive Officer, and Thomas E. Klema, our Chief Financial Officer, Secretary and Treasurer. Mr. Chioini is primarily responsible for managing our sales and marketing efforts, which has driven our growth. We maintain key man life insurance on Mr. Chioini in the amount of \$1 million. Neither Mr. Chioini nor Mr. Klema are parties to a current employment agreement with the Company. If we lose the services of Mr. Chioini or Mr. Klema, our business, financial condition and results of operations could be adversely affected.

Our business is highly regulated.

The testing, manufacture and sale of the products we manufacture and distribute are subject to extensive regulation by the FDA and by other federal, state and foreign authorities. Before medical devices can be commercially marketed in the United States, the FDA must give either 510(k) clearance or premarket approval for the devices. If we do not comply with these requirements, we may be subject to a variety of sanctions, including fines, injunctions, seizure of products, suspension of production, denial of future regulatory approvals, withdrawal of existing regulatory approvals and criminal prosecution. Our business could be adversely affected by any of these actions.

Although our hemodialysis concentrates have been cleared by the FDA, it could rescind these clearances and any new products or modifications to our current products that we develop could fail to receive FDA clearance. If the FDA rescinds or denies any current or future clearances or approvals for our products, we would be prohibited from selling those products in the United States until we obtain such clearances or approvals. Our business would be adversely affected by any such prohibition, any delay in obtaining necessary regulatory approvals, and any limits placed by the FDA on our intended use. Our products are also subject to federal regulations regarding manufacturing quality, known as Good Manufacturing Practices, or GMP. In addition, our new products will be subject to review as a pharmaceutical drug by the FDA. Changes in applicable regulatory requirements could significantly increase the costs of our operations and may reduce our profitability if we are unable to recover any such cost increases through higher prices.

Foreign approvals to market our new drug products may be difficult to obtain.

The approval procedures for the marketing of our new drug products in foreign countries vary from country to country, and the time required for approval may be longer or shorter than that required for FDA approval. Even after foreign approvals are obtained, further delays may be encountered before products may be marketed. Many countries require additional governmental approval for price reimbursement under national health insurance systems.

Table of Contents

Additional studies may be required to obtain foreign regulatory approval. Further, some foreign regulatory agencies may require additional studies involving patients located in their countries.

Health care reform could adversely affect our business.

The federal and state governments in the United States, as well as many foreign governments, from time to time explore ways to reduce medical care costs through health care reform. Due to uncertainties regarding the ultimate features of reform initiatives and their enactment and implementation, we cannot predict what impact any reform proposal ultimately adopted may have on the pharmaceutical and medical device industry or on our business or operating results.

We may not have sufficient cash to fund SFP development in future years.

Our research and development plan for SFP is expected to result in significant cash outlays in 2008 and 2009. We expect to spend between \$5-6 million in 2008 on SFP product development and approval. We expect that our cash resources are adequate to fund our cash requirements in 2008. We believe we have adequate sources of liquidity to fund the testing and regulatory approval for SFP. However, if additional testing is required that is beyond that which we have planned for, we may not have adequate cash resources to fund our product development and approval efforts. If our clinical trial efforts do not achieve acceptable results, we may have to do more testing and, depending on the scope and duration of any additional testing, our available cash resources may not be sufficient to fund that additional testing.

We may not have sufficient products liability insurance.

As a supplier of medical products, we may face potential liability from a person who claims that he or she suffered harm as a result of using our products. We maintain products liability insurance in the amount of \$3 million per occurrence and \$3 million in the aggregate. We cannot be sure that it will remain economical to retain our current level of insurance, that our current insurance will remain available or that such insurance would be sufficient to protect us against liabilities associated with our business. We may be sued, and we may have significant legal expenses that are not covered by insurance. In addition, our reputation could be damaged by product liability litigation and that could harm our marketing ability. Any litigation could also hurt our ability to retain products liability insurance or make such insurance more expensive. Our business, financial condition and results of operations could be adversely affected by an uninsured or inadequately insured product liability claim in the future.

Our Board of Directors is subject to potential deadlock.

Our Board of Directors presently has four members, and under our bylaws, approval by a majority of the Directors is required for many significant corporate actions. It is possible that our Board of Directors may be unable to obtain majority approval in certain circumstances, which would prevent us from taking action.

RISKS RELATED TO OUR COMMON STOCK

Shares eligible for future sale may affect the market price of our common shares.

We are unable to predict the effect, if any, that future sales of common shares, or the availability of our common shares for future sales, will have on the market price of our common shares from time to time. Sales of substantial amounts of our common shares (including shares issued upon the exercise of stock options or warrants), or the possibility of such sales, could adversely affect the market price of our common shares and also impair our ability to raise capital through an offering of our equity securities in the future. 9,807,510 of the Company's common shares are freely tradable as of December 31, 2007, and an additional 1,632,837 shares are tradable subject to the resale limitations contained in Rule 144 under the Securities Act. In addition, as of December 31, 2007, 4,052,035 shares were available for future issuance under our 1997 Stock Option Plan, including 3,052,035 shares issuable upon the exercise of outstanding stock options, all of which were exercisable and 1,000,000 shares under our 2007 Long Term Incentive Plan of which 755,000 options have been granted, but are not vested or exercisable. In the future, we may issue additional shares in connection with investments, repayment of our debt or for other purposes considered advisable by our Board of Directors. Any substantial sale of our common shares may have an adverse effect on the market price of our common shares.

The market price of our securities may be volatile.

The historically low trading volume of our common shares may also cause the market price of the common shares to fluctuate significantly in response to a relatively low number of trades or transactions.

Table of Contents

Voting control and anti-takeover provisions reduce the likelihood that you will receive a takeover premium.

As of December 31, 2007, our officers and directors beneficially owned approximately 21.6% of our voting shares (assuming the exercise of exercisable options granted to such officers and directors). Accordingly, they may be able to effectively control our affairs. Our shareholders do not have the right to cumulative voting in the election of directors. In addition, the Board of Directors has the authority, without shareholder approval, to issue shares of preferred stock having such rights, preferences and privileges as the Board of Directors may determine. Any such issuance of preferred stock could, under certain circumstances, have the effect of delaying or preventing a change in control and may adversely affect the rights of holders of common shares, including by decreasing the amount of earnings and assets available for distribution to holders of common shares and adversely affect the relative voting power or other rights of the holders of the common shares. In addition, we are subject to Michigan statutes regulating business combinations, takeovers and control share acquisitions which might also hinder or delay a change in control. Anti-takeover provisions that could be included in the preferred stock when issued and the Michigan statutes regulating business combinations, takeovers and control share acquisitions can have a depressive effect on the market price of the Company's securities and can limit shareholders' ability to receive a premium on their shares by discouraging takeover and tender offer offers.

Our directors serve staggered three-year terms, and directors may not be removed without cause. The Company's Articles of Incorporation also set the minimum and maximum number of directors constituting the entire Board at three and fifteen, respectively, and require approval of holders of a majority of the Company's voting shares to amend these provisions. These provisions could have an anti-takeover effect by making it more difficult to acquire the Company by means of a tender offer, a proxy contest or otherwise, or to remove incumbent directors. These provisions could delay, deter or prevent a tender offer or takeover attempt that a shareholder might consider in his or her best interests, including those attempts that might result in a premium over the market price for the common shares.

The Company does not anticipate paying dividends in the foreseeable future.

Since inception, the Company has not paid any cash dividend on its common shares and it does not anticipate paying such dividends in the foreseeable future. The payment of dividends by the Company is within the discretion of its Board of Directors and depends upon the Company's earnings, capital requirements, financial condition and requirements, future prospects, restrictions in future financing agreements, business conditions and other factors deemed relevant by the Board. The Company intends to retain earnings, if any, to finance its operations.

Outstanding options may affect the market price of the common shares.

In addition to the common shares offered in this prospectus, we have reserved 4,052,035 common shares for issuance upon exercise of options under our 1997 Stock Option Plan and our 2007 Long Term Incentive Plan, under which we have granted options to acquire an aggregate of 3,807,035 common shares through December 31, 2007. As of December 31, 2007, options to purchase 3,807,035 common shares remain outstanding. The market price of the common shares may be depressed by the potential exercise of these options. The holders of these options are likely to exercise them when we would otherwise be able to obtain additional capital on more favorable terms than those provided by the options. Further, while the options are outstanding, we may be unable to obtain additional financing on favorable terms.

Table of Contents**USE OF PROCEEDS**

Upon any exercise for cash of the warrants, the warrant holders will pay us the exercise price of the warrants as set forth in the following table. We will use any cash we receive upon the exercise of the warrants for general corporate purposes. There is no assurance that all or any of the warrants will be exercised prior to their expiration nor any assurance of the timing of the receipt of exercise proceeds. Assuming that all of the warrants are exercised, we expect to receive proceeds of approximately \$8.6 million. We will not receive any proceeds from the sale of shares by the Selling Shareholders.

Number of Shares Underlying Warrants	Per Share Exercise Price	Total
1,079,169	\$ 7.18	\$ 7,748,433
80,000	\$ 10.00	800,000
1,159,169	\$	8,548,433

The Selling Shareholders will pay any underwriting discounts and commissions and expenses incurred by the Selling Shareholders for brokerage, accounting, tax or legal services or any other expenses incurred by the Selling Shareholders in disposing of the shares. We will bear all other costs, fees and expenses incurred in effecting the registration of the shares covered by this prospectus, including, without limitation, all registration and filing fees, Nasdaq Global Market listing fees and fees and expenses of our counsel and our accountants.

SELLING SHAREHOLDERS

The shares of common stock being sold by the Selling Shareholders consist of:

2,158,337 shares of our common stock that we issued to certain selling shareholders (the Offering Selling Shareholders) in a private placement on November 28, 2007;

1,079,169 shares of our common stock issuable upon exercise of warrants to purchase common stock that we issued to the Offering Selling Shareholders in connection with their purchase of shares of our common stock in a November 28, 2007 private placement; and

80,000 shares of our common stock issuable upon exercise of warrants to purchase common stock that we issued to a sales agent in a November 28, 2007 private placement.

Throughout this prospectus, when we refer to the Selling Shareholders, we mean the persons listed in the table below, as well as the pledgees, donees, assignees, transferees, successors and others who later hold any of the Selling Shareholders' interests, and when we refer to the shares of our common stock being offered by this Prospectus, we are referring to the shares of our common stock sold and the shares of our common stock issuable upon the exercise of the warrants issued in the private placement.

In connection with the registration rights we granted to the Offering Selling Shareholders, we filed with the SEC a registration statement on Form S-3, of which this prospectus forms a part, with respect to the resale or other disposition of the shares of common stock offered by this prospectus or interests therein from time to time on the Nasdaq Global Market, in privately negotiated transactions or otherwise. We have also agreed to prepare and file amendments and supplements to the registration statement to the extent necessary to keep the registration statement effective for the period of time required under our agreement with the Offering Selling Shareholders. The warrants held by the Offering Selling Shareholders are exercisable at any time on or after November 28, 2008, in whole or in part and expire on November 28, 2012.

The actual number of shares of common stock covered by this prospectus, and included in the registration statement of which this Prospectus forms a part, includes additional shares of common stock that may be issued with respect to the

shares of common stock described herein as a result of stock splits, stock dividends, reclassifications, recapitalizations, combinations or similar events.

The table below sets forth, to our knowledge, information about the Selling Shareholders as of December 31, 2007. Beneficial ownership is determined in accordance with the rules of the SEC and includes voting or investment power with respect to shares of our common stock. The number representing the number of shares of common stock beneficially owned prior to the offering for each Selling Shareholder includes (i) all shares held by a Selling Shareholder prior to the private placement, plus (ii) all shares purchased by the Selling Shareholder pursuant to the private placement and being offered pursuant to the prospectus or acquired thereafter as well as (iii) all options, warrants, or other derivative securities which are exercisable within 60 days of December 31, 2007, including the warrants issued in the private placement, held by a Selling Shareholder. Under the terms of the warrants, Selling Shareholders may not exercise the warrants to the extent such conversion or exercise would cause such Selling Shareholder, together with its affiliates, to beneficially

Table of Contents

own a number of shares of common stock which would exceed 9.99% of our then outstanding shares of common stock following such exercise, excluding for purposes of such determination shares of common stock issuable upon exercise of the warrants which have not been exercised. The percentages of shares owned after the offering are based on 13,815,186 shares of our common stock outstanding as of December 31, 2007, which includes the outstanding shares of common stock offered by this prospectus. Unless otherwise indicated below, to our knowledge, all persons named in this table have sole voting and investment power with respect to their shares of common stock, except to the extent authority is shared by spouses under applicable law. The inclusion of any shares in this table does not constitute an admission of beneficial ownership by the person named below.

We do not know when or in what amounts a Selling Shareholder may offer shares for sale. The Selling Shareholders might not sell any or all of the shares offered by this prospectus. Because the Selling Shareholders may offer all or some of the shares pursuant to this offering, and because there are currently no agreements, arrangements or understandings with respect to the sale of any of the shares, we cannot estimate the number of the shares that will be held by the Selling Shareholders after completion of the offering. However, for purposes of the table below, we have assumed that, after completion of the offering, none of the shares covered by this prospectus will be held by the Selling Shareholders.

The Selling Shareholders may have sold or transferred, in transactions exempt from the registration requirements of the Securities Act, some or all of their shares of common stock since the date on which the information in the table below is presented. Information about the Selling Shareholders may change over time.

Name of Selling Shareholder	Shares of Common Stock		Number of Shares of Common Stock Being Offered	Shares of Common Stock to be Beneficially Owned After Offering	
	Beneficially Owned Prior to Offering	Percentage		Number	Percentage
Entities affiliated with RA Capital Management, LLC	2,050,001(1)	14.8%	2,050,001	0	*
Entities affiliated with Berlin Capital RRC Bio Fund, LP	785,566(2)	5.7%	250,002	535,564	3.9%
Camber Capital Fund L.P.	125,001(3)	*%	125,001	0	*%
Mediphase Offshore Master Fund, L.P.	187,500(4)	1.4%	187,500	0	*%
Boxer Capital LLC	125,001(5)	*%	125,001	0	*%
RJ Aubrey IR Services LLC	500,001(6)	3.6%	500,001	0	*%
	118,385(7)	*%	80,000	38,385	*%

* Less than one percent.

(1) Consists of 1,350,267 shares of common stock owned by RA Capital Biotech Fund, L.P. (Fund I) and 675,134 shares

of common stock issuable upon the exercise of warrants held by Fund I; 16,400 shares of common stock owned by RA Capital Biotech Fund II, L.P. (Fund II) and 8,200 shares of common stock issuable upon the exercise of warrants held by Fund II. RA Capital Management, LLC is the general partner of each of Fund I and Fund II, and Richard H. Aldrich and Peter Kolchinsky are the sole managers of RA Capital Management, LLC. Each of the above persons expressly disclaims beneficial ownership of the securities, other than to the extent of his or its pecuniary interest therein.

- (2) Consists of 288,856 shares of common stock owned by Berlin Capital Growth L.P.

(Berlin Capital)
and 41,667
shares of
common stock
issuable upon
the exercise of
warrants held by
Berlin Capital;
413,376 shares
of common
stock owned by
J George
Investments
LLC (J George)
and 41,667
shares of
common stock
issuable upon
the exercise of
warrants held by
J George. Berlin
Financial, Ltd.
is the general
partner of Berlin
Capital and J
George. Thomas
G. Berlin is the
managing
member of
Berlin
Financial, Ltd.
and expressly
disclaims
beneficial
ownership of
the securities,
other than to the
extent of his or
its pecuniary
interest therein.

- (3) Consists of
83,334 shares of
common stock
owned by RRC
Bio Fund, LP
(RRC) and
41,667 shares of
common stock
issuable upon
the exercise of

warrants held by
RRC. RRC
Management,
LLC is the
general partner
of RRC and
James

Table of Contents

Silverman is the sole manager of RRC Management, LLC. Each of the above persons expressly disclaims beneficial ownership of the securities, other than to the extent of his or its pecuniary interest therein.

- (4) Consists of 125,000 shares of common stock owned by Camber Capital Fund, L.P. (Camber) and 62,500 shares of common stock issuable upon the exercise of warrants held by Camber. Camber Capital Partners LLC is the general partner of Camber. Stephen Du Bois is the sole manager of Camber Capital Partners LLC and expressly disclaims beneficial ownership of the securities, other than to the extent of his or its pecuniary interest therein.

- (5) Consists of 83,334 shares of common stock owned by Mediphase Offshore Master Fund, L.P. (Mediphase) and 41,667 shares of common stock issuable upon the exercise of warrants held by Mediphase. Mediphase Capital Partners, LLC is the general partner of Mediphase and Lawrence G. Miller and Paul A. Howard are the sole managers of Mediphase Capital Partners, LLC. Each of the above persons expressly disclaims beneficial ownership of the securities, other than to the extent of his or its pecuniary interest therein.
- (6) Consists of 333,334 shares of common stock owned by Boxer Capital LLC (Boxer) and 166,667 shares of common stock issuable upon

the exercise of warrants held by Boxer, Andrew Gitkin and Shehan Dissanayake are the managing members of Boxer. Each of the above persons expressly disclaims beneficial ownership of the securities, other than to the extent of his or its pecuniary interest therein.

- (7) Consists of 38,385 shares of common stock owned by RJ Aubrey IR Services LLC (RJ Aubrey) and 80,000 shares of common stock issuable upon the exercise of warrants by RJ Aubrey. Ronald J. Aubrey is the sole member of RJ Aubrey and expressly disclaims beneficial ownership of the securities, other than to the extent of his or its pecuniary interest therein.

Relationships with Selling Shareholders

None of the Selling Shareholders has held any position or office with us or our affiliates within the last three years or has had a material relationship with us or any of our predecessors or affiliates within the past three years.

PLAN OF DISTRIBUTION

Selling Shareholders

The Selling Shareholders of the common shares covered by this prospectus or any of their pledgees, assignees and successors-in-interest may, from time to time, sell any or all of their shares of common shares on any stock exchange market or trading facility on which the shares are traded or in private transactions. These sales may be at fixed, negotiated or market prices. The Selling Shareholders may use any one or more of the following methods when selling shares:

ordinary brokerage transactions and transactions in which the broker dealer solicits purchasers;

block trades in which the broker-dealer will attempt to sell the shares as agent but may position and resell a portion of the block as principal to facilitate the transaction;

purchases by a broker-dealer as principal and resale by the broker-dealer for its account;

an exchange distribution in accordance with the rules of the applicable exchange;

privately negotiated transactions;

settlement of short sales entered into after the date of this prospectus;

broker-dealers may agree with the Selling Shareholder to sell a specified number of such shares at a stipulated price per share;

a combination of any such methods of sale;

Table of Contents

through the writing or settlement of options or other hedging transactions, whether through an options exchange or otherwise; or

any other method permitted pursuant to applicable law.

The Selling Shareholders may also sell shares under Rule 144 under the Securities Act, if available, rather than under this prospectus. Broker-dealers engaged by the Selling Shareholders may arrange for other brokers-dealers to participate in sales. Broker-dealers may receive commissions or discounts from the Selling Shareholders (or, if any broker-dealer acts as agent for the purchaser of shares, from the purchaser) in amounts to be negotiated, but, except as set forth in a supplement to this prospectus, in the case of an agency transaction not in excess of a customary brokerage commission in compliance with NASD Rule 2440; and in the case of a principal transaction a markup or markdown in compliance with NASD IM-2440.

In connection with the sale of the common shares or interests therein, the Selling Shareholders may enter into hedging transactions with broker-dealers or other financial institutions, which may in turn engage in short sales of the common shares in the course of hedging the positions they assume. The Selling Shareholders may also, on or after the date of this prospectus, sell the common shares short and deliver these securities to close out their short positions, or loan or pledge the common shares to broker-dealers that in turn may sell these securities. The Selling Shareholders may also enter into option or other transactions with broker-dealers or other financial institutions or the creation of one or more derivative securities which require the delivery to such broker-dealer or other financial institution of shares offered by this prospectus, which shares such broker-dealer or other financial institution may resell pursuant to this prospectus (as supplemented or amended to reflect such transaction).

Any broker-dealers or agents that are involved in selling or distributing the shares may be deemed to be underwriters within the meaning of the Securities Act in connection with such sales. In such event, any commissions received by such broker-dealers or agents and any profit on the resale of the shares purchased by them may be deemed to be underwriting commissions or discounts under the Securities Act. Each Selling Shareholder has informed the Company that it does not have any written or oral agreement or understanding, directly or indirectly, with any person to distribute the common shares.

The Company is required to pay the fees and expenses incurred by the Company incident to the registration of the shares as well as certain of the fees and expenses of the Selling Shareholders. The Company has agreed to indemnify the Selling Shareholders against certain losses, claims, damages and liabilities, including liabilities under the Securities Act. The Selling Shareholders have agreed to indemnify the Company against certain losses, claims, damages and liabilities, including liabilities under the Securities Act arising out of or based upon any untrue statement of any material fact contained in the registration statement, or solely arising out of or relating to the omission to state a material fact required to be stated in this registration statement or necessary to make the statements herein not misleading, in each case to the extent that such untrue statement or alleged untrue statement or omission or alleged omission was made in the registration statement in reliance upon and in conformity with written information furnished by such Selling Shareholders expressly for use in connection with the registration statement.

In addition, any securities covered by this prospectus which qualify for sale pursuant to Rule 144 under the Securities Act may be sold under Rule 144 rather than under this prospectus. Each Selling Shareholder has advised us that it has not entered into any written or oral agreements, understandings or arrangements with any underwriter or broker-dealer regarding the sale of the resale shares. There is no underwriter or coordinating broker acting in connection with the proposed sale of the resale shares by the Selling Shareholders.

We agreed to keep this prospectus effective for a period ending on the earlier to occur of (i) the date that all of the common shares have been sold or (ii) the second anniversary of the mandatory effective date of 60 calendar days after the filing date of this registration statement, if the SEC determines not to review the registration statement, or 120 calendar days after the filing date of this registration statement, if the SEC determines to review the registration statement; provided, that in either case such date shall be extended by the amount of time of any suspension period, as described in the registration rights agreement. The resale shares will be sold only through registered or licensed brokers or dealers if required under applicable state securities laws. In addition, in certain states, the resale shares may not be sold unless they have been registered or qualified for sale in the applicable state or an exemption from the

registration or qualification requirement is available and is complied with.

Under applicable rules and regulations under the Securities Exchange Act of 1934, any person engaged in the distribution of the resale shares may not simultaneously engage in market making activities with respect to the common shares for a period of two business days prior to the commencement of the distribution. In addition, the Selling Shareholders will be subject to applicable provisions of the Exchange Act and the rules and regulations thereunder, including Regulation M, which may limit the timing of purchases and sales of shares of the common shares by the Selling Shareholders or any other person. We will make copies of this prospectus available to the Selling Shareholders and have informed it of the need to deliver a copy of this prospectus to each purchaser at or prior to the time of the sale.

Table of Contents

Warrants

The following description is a summary of material provisions of the warrants issued in our private placements on November 28, 2007. It does not restate the terms of the warrants in their entirety. We urge you to read the forms of warrant because they, and not this description, define the rights of the holders of the warrants.

Offering Selling Shareholder Warrants

The warrants issued to the Offering Selling Shareholders (the Offering Selling Shareholder Warrants) in our private placement on November 28, 2007, when exercised, entitle the Offering Selling Shareholders to receive an aggregate of 1,079,169 shares of common stock at an exercise price of \$7.18 per share, subject to adjustment. The Offering Selling Shareholder Warrants are exercisable at any time during the period from November 28, 2008 to November 28, 2012. Generally, a Offering Selling Shareholder Warrant, or a part thereof, is not exercisable, if, upon such exercise, the number of shares of common stock held or beneficially owned by such Offering Selling Shareholder would exceed 9.99% of the number of shares of Common Stock then issued and outstanding. This restriction, however, can be waived by the Offering Selling Shareholder upon written notice to the Company.

The exercise price and the number of shares of common stock purchasable upon exercise of the Offering Selling Shareholder Warrants both will be subject to adjustment in certain events including:

- (a) stock dividend payable in common stock, stock split, or subdivision of our common stock;
- (b) reclassification of our common stock or any reorganization, consolidation, merger, or sale, lease, license, exchange or other transfer of all or substantially all, of the business and/or assets of the Company.

Agent Warrants

The warrants issued to RJ Aubrey in a private placement on November 28, 2007 (the Agent Warrants), when exercised, entitle RJ Aubrey to receive 80,000 shares of common stock at an exercise price of \$10.00 per share, subject to adjustment. The Agent Warrants are exercisable at any time during the period from November 28, 2008 to November 28, 2012. The Agent Warrants, or a part thereof, are not exercisable, if, upon such exercise, the number of shares of common stock held or beneficially owned by RJ Aubrey would exceed 9.99% of the number of shares of Common Stock then issued and outstanding. This restriction, however, can be waived by RJ Aubrey upon written notice to the Company. This restriction, however, can be waived by RJ Aubrey upon written notice to the Company. The exercise price and the number of shares of common stock purchasable upon exercise of the Agent Warrants both will be subject to adjustment in certain events including:

- (a) stock dividend payable in common stock, stock split, or subdivision of our common stock;
- (b) reclassification of our common stock or any reorganization, consolidation, merger, or sale, lease, license, exchange or other transfer of all or substantially all, of the business and/or assets of the Company.

Table of Contents**Expenses**

The following table sets forth the estimated amounts of expenses to be borne by the Company in connection with the issuance and distribution of the common shares being registered, other than underwriting discounts and commissions:

Securities and Exchange Commission Registration Fee	\$ 916.00
Accounting Fees and Expenses	\$ 10,000.00
Legal Fees and Expenses	\$ 120,000.00
Transfer Agent's and Registrar's Fees and Expenses	\$ 2,000.00
Miscellaneous Expenses	\$ 11,250.00

Total	\$ 144,166.00
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None of these expenses will be borne by the Selling Shareholders. All of these expenses, except the Securities and Exchange Commission Registration Fee, represent estimates only.

LEGAL MATTERS

The validity of the issuance of the common stock offered by this prospectus will be passed upon for us by Dykema Gossett PLLC.

EXPERTS

The financial statements incorporated in this prospectus by reference from the Company's Annual Report on Form 10-KSB for the year ended December 31, 2006, have been audited by Plante & Moran, PLLC, independent auditors, as stated in their report which is incorporated in this prospectus by reference, and have been so incorporated in reliance upon the report of such firm given upon their authority as experts in accounting and auditing.

15

PART II**INFORMATION NOT REQUIRED IN PROSPECTUS****Item 14. Other Expenses of Issuance and Distribution.**

The following table sets forth the various expenses to be incurred in connection with the sale and distribution of the securities being registered hereby, all of which will be borne by Rockwell Medical Technologies, Inc. (except any underwriting discounts and commissions and expenses incurred by the Selling Shareholders for brokerage, accounting, tax or legal services or any other expenses incurred by the Selling Shareholders in disposing of the shares). All amounts shown are estimates except the SEC registration fee.

SEC registration fee	\$ 916.00
Legal fees and expenses	\$ 120,000
Accounting fees and expenses	\$ 10,000
Transfer Agent's and Registrar's Fees and Expenses	\$ 2,000
Miscellaneous expenses	\$ 11,250

Total expenses	\$ 144,166.00
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Item 15. Indemnification of Directors and Officers.**INDEMNIFICATION**

The Michigan Business Corporation Act, as amended (the "MBCA"), authorizes a Michigan corporation under specified circumstances to indemnify its directors and officers (including reimbursement for expenses incurred). The provisions of the Company's Bylaws relating to indemnification of directors and officers generally provide that present and former directors and officers will be indemnified to the fullest extent permissible under Michigan law. The provision also provides for the advancement of litigation expenses at the request of a director or officer.

The MBCA also permits Michigan corporations to limit the personal liability of directors for a breach of their fiduciary duty. The provisions of the Company's Articles of Incorporation limit director liability to the maximum

extent currently permitted by Michigan law. Michigan law allows a corporation to provide in its articles of incorporation that a director of the corporation will not be personally liable to the corporation or its shareholders for monetary damages for breach of fiduciary duty as a director, except for liability for specified acts.

Section 567 of the MBCA authorizes the Company to purchase and maintain insurance on behalf of a person who is or was a director, officer, employee or agent of the Company or who serves at the request of the Company as a director, officer, partner, trustee, employee or agent of another enterprise, whether or not the Company would have the power to indemnify him or her under the Bylaws or the laws of the State of Michigan. The Company maintains a directors and officers insurance policy.

Item 16. Exhibits

EXHIBIT

NUMBER DESCRIPTION

- | | |
|-----|---|
| 4.1 | Form of Warrant (filed as an exhibit to the Company's Current Report on Form 8-K on December 4, 2007 and incorporated herein by reference). |
| 4.2 | RJ Aubrey Warrant Agreement (filed as an exhibit to the Company's Current Report on Form 8-K on December 4, 2007 and incorporated herein by reference). |

II-1

Table of Contents

EXHIBIT

NUMBER DESCRIPTION

- 5.1 Opinion of Dykema Gossett PLLC.
- 10.21 Registration Rights Agreement, dated November 28, 2007, between the Company and certain Purchasers (filed as an exhibit to the Company's Current Report on Form 8-K on December 4, 2007 and incorporated herein by reference).
- 23.1 Consent of Plante & Moran, PLLC.
- 23.2 Consent of Dykema Gossett PLLC, included in Exhibit 5.1 filed herewith.
- 24.1 Power of Attorney of Ronald D. Boyd
- 24.2 Power of Attorney of Kenneth L. Holt
- 24.3 Power of Attorney of Patrick J. Bagley

Item 17. Undertakings.

The undersigned registrant hereby undertakes:

(1) To file, during any period in which offers or sales are being made, a post-effective amendment to this Registration Statement:

(i) To include any prospectus required by Section 10(a)(3) of the Securities Act of 1933, as amended (the "Securities Act");

(ii) To reflect in the prospectus any facts or events arising after the effective date of this Registration Statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in this Registration Statement. Notwithstanding the foregoing, any increase or decrease in the volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the Commission pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than 20 percent change in the maximum aggregate offering price set forth in the Calculation of Registration Fee table in the effective Registration Statement; and

(iii) To include any material information with respect to the plan of distribution not previously disclosed in this Registration Statement or any material change to such information in this Registration Statement; *provided, however*, that paragraphs (1)(i) and (1)(ii) do not apply if the information required to be included in a post-effective amendment by those paragraphs is contained in periodic reports filed with or furnished to the Commission by the Registrant pursuant to Section 13 or Section 15(d) of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), that are incorporated by reference in this Registration Statement.

(2) That, for the purposes of determining any liability under the Securities Act, each post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at the time shall be deemed to be the initial *bona fide* offering thereof.

(3) To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.

The undersigned registrant hereby undertakes that, for purposes of determining any liability under the Securities Act, each filing of the registrant's annual report pursuant to Section 13(a) or 15(d) of the Exchange Act that is incorporated by reference in this Registration Statement shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial *bona fide* offering thereof.

Insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors, officers and controlling persons of the Registrant pursuant to the indemnification provisions described herein, or otherwise, the Registrant has been advised that in the opinion of the Securities and Exchange Commission such indemnification is against public policy as expressed in the Securities Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the Registrant of expenses incurred or paid by a director, officer or controlling person of the Registrant in the successful defense of any

II-2

Table of Contents

action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the Registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Securities Act and will be governed by the final adjudication of such issue.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, as amended, the registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-3 and has duly caused this Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Wixom, State of Michigan, on January 10, 2008.

ROCKWELL MEDICAL TECHNOLOGIES,
INC.

By: /s/ Robert L. Chioini
Robert L. Chioini
President, Chief Executive Officer, and Chairman of the
Board

SIGNATURES AND POWER OF ATTORNEY

Pursuant to the requirements of the Securities Act of 1933, as amended, this Registration Statement has been signed by the following persons in the capacities and on the dates indicated.

Signature	Title	Date
/s/ Robert L. Chioini Robert L. Chioini	President, Chief Executive Officer and Chairman of the Board (Principal Executive Officer)	1/10/08
/s/ Thomas E. Klema Thomas E. Klema	Vice President of Finance, Chief Financial Officer, Treasurer, and Secretary (Principal Financial Officer and Principal Accounting Officer)	1/10/08
* Ronald D. Boyd	Director	1/10/08
* Kenneth L. Holt	Director	1/10/08
* Patrick J. Bagley	Director	1/10/08
/s/ Thomas E. Klema		

* By Thomas E. Klema, attorney in fact

Table of Contents

EXHIBIT INDEX

EXHIBIT

NUMBER DESCRIPTION

- 4.1 Form of Warrant (filed as an exhibit to the Company's Current Report on Form 8-K on December 4, 2007 and incorporated herein by reference).
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- 24.2 Power of Attorney of Kenneth L. Holt
- 24.3 Power of Attorney of Patrick J. Bagley