DERMA SCIENCES, INC. Form 424B3 February 08, 2011

> Filed pursuant to Rule 424(b)(3) Registration Statement No. 333-163127 Registration Statement No. 333-164942

PROSPECTUS SUPPLEMENT NO. 1 to Prospectus dated February 16, 2010

This prospectus supplement No. 1 ("Supplement") supplements the prospectus dated February 16, 2010 ("Prospectus") which forms a part of our Registration Statement on Form S-1 (Registration Statement No. 333-163127 and No. 333-164942). This Supplement is being filed to update, amend and supplement the information included or incorporated by reference in the Prospectus with the information contained in our current report on Form 8-K filed with the Securities and Exchange Commission on February 3, 2011 (the "Current Report"). We have attached the Current Report to, and we incorporate the Current Report by reference into, this Supplement.

The Prospectus related to the public sale by us of 1,117,800 shares of our common stock and 372,600 warrants to purchase our common stock, together with 29,160 warrants to purchase our common stock furnished as underwriter's compensation. The Prospectus and this Supplement relate to the public disposition, from time to time, by the warrants holders or their successors in interest of up to 410,760 shares of our common stock issuable upon exercise of the foregoing warrants.

Our common stock is listed on The NASDAQ Capital Market under the symbol "DSCI". On February 7, 2011, the last reported sale price of our common stock on The NASDAQ Capital Market was \$10.90.

This Supplement should be read in conjunction with the Prospectus which is to be delivered with this Supplement. If there is any inconsistency between the information in the Prospectus and this Supplement, you should rely on the information in this Supplement.

Investing in our common stock involves a high degree of risk. You should review carefully the risks and uncertainties described under the heading "Risk Factors" beginning on page 4 of the Prospectus.

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

The date of this Supplement is February 8, 2011.

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 8-K

CURRENT REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

Date of Report (Date of earliest event reported): February 3, 2011

Derma Sciences, Inc. (Exact name of registrant as specified in its charter)

Pennsylvania (State or other jurisdiction of incorporation) 1-31070 (Commission File Number) 23-2328753 (IRS employer identification number)

214 Carnegie Center, Suite 300
Princeton, NJ 08540
(609) 514-4744
(Address including zip code and telephone number, of principal executive offices)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (see General Instruction A.2. below):

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- " Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
- Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- " Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

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Item 8.01 Other Events

On February 3, 2011 Derma Sciences, Inc. (the "Registrant") announced the results of its Phase 2 clinical trial of DSC127 in patients with diabetic foot ulcers. A copy of the press release issued by the Registrant in connection with this announcement is attached as Exhibit 99.1 to this Current Report on Form 8-K and is incorporated herein by reference.

Item 9.01 Financial Statements and Exhibits

(d) Exhibits:

99.1 Press release dated February 3, 2011 entitled "Derma Sciences Reports Positive Top-Line Results From
 DSC127 Phase 2 Trial in Patients with Diabetic Foot Ulcers"

Pursuant to the requirements of the Securities Exchange Act of 1934, the Registrant has caused this report to be signed on its behalf by the undersigned thereunto duly authorized.

DERMA SCIENCES, INC.

By: /s/ John E. Yetter

John E. Yetter, CPA

Vice President and Chief Financial

Officer

Date: February 3, 2011

EXHIBIT INDEX

Exhibit

Number Description

99.1 Press release dated February 3, 2011 entitled "Derma Sciences Reports Positive Top-Line Results

From DSC127 Phase 2 Trial in Patients with Diabetic Foot Ulcers"

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Exhibit 99.1

DERMA SCIENCES REPORTS POSITIVE TOP-LINE RESULTS FROM DSC127 PHASE 2 TRIAL IN PATIENTS WITH DIABETIC FOOT ULCERS

Drug meets primary efficacy endpoint

Wounds up to three times more likely to heal

Conference call begins at 10:00 a.m. Eastern time today

PRINCETON, N.J. (February 3, 2011) – Derma Sciences, Inc. (Nasdaq: DSCI), a medical device and pharmaceutical company focused on advanced wound care, today announced positive results from its Phase 2 clinical trial with DSC127 in patients with diabetic foot ulcers, including meeting the trial's primary endpoint, the proportion of study ulcers healed by 12 weeks as defined by 100% epithelialized with no drainage, as well as all secondary endpoints measured at this time. DSC127 is a patented, topically applied novel angiotensin analog that targets receptors that are up-regulated upon injury to tissue.

The double-blind, placebo-controlled, multi-center clinical trial randomized 80 patients to receive one of two dose strengths of DSC127 (0.03% and 0.01%) or vehicle placebo control. After 14 days of best standard-of-care to evaluate ulcer healing and ensure the wounds were chronic, those patients randomized into the study received four weeks of active treatment followed by eight weeks of observation and assessment.

In the Intent-to-Treat (ITT) population: Results show that 54% of the diabetic wounds treated with the 0.03% dose (high dose) of DSC127 achieved 100% closure in 12 weeks or less, compared with 33% of patients receiving placebo control, and 30% of patients receiving the 0.01% dose (low dose) of DSC127. Based on odds ratio analysis, patients treated with DSC127 0.03% were 2.3 times more likely to have their wounds heal completely compared with patients treated with placebo/standard of care.

In the Per-Protocol (PP) population: Results show that 65% of the diabetic wounds treated with the 0.03% dose of DSC127 achieved 100% closure in 12 weeks or less, compared with 38% of patients receiving placebo control, and 28% of patients receiving the 0.01% dose of DSC127. Based on odds ratio analysis, patients treated with DSC127 0.03% were 3.0 times more likely to have their wounds heal completely compared with patients treated with placebo/standard of care.

The high dose of DSC127 exceeded the trial's primary endpoint measurement target of an improvement of 15 percentage points in complete healing of wounds within the 12-week duration of the study for both the ITT (21 percentage point increase) and PP (27 percentage point increase) populations, compared with placebo.

The trial was not powered for statistical significance, however there was a statistically significant (p=0.049) improvement in the rate of ulcer depth reduction in the PP high-dose population through 12 weeks of treatment compared with the control arm, using covariate analysis.

The drug was well-tolerated and there were no significant adverse events associated with DSC127 treatment. Further data on the durability of the healing effect is expected to be available late in the second quarter of 2011 after all patients with 100% closed wounds have completed a subsequent 12 weeks of follow-up monitoring.

David Armstrong, M.D. of Southern Arizona Limb Salvage Alliance (SALSA) at the University of Arizona and the study's lead investigator, said, "The clinical results from this trial are very impressive as application of 0.03% DSC127 appears to increase healing rates at a level greater than has been previously reported by drugs currently on the market and in development. Although further testing in a pivotal study is required, it seems that DSC127 has the potential to be an important therapy for the treatment of diabetic wounds."

Derma Sciences Chairman and Chief Executive Officer Edward J. Quilty said, "Results from this Phase 2 trial exceeded our expectations and we are delighted to be reporting such compelling results. Our next step in the development process is to discuss these results with the FDA in an end-of-Phase 2 meeting, and to advance development into Phase 3. These results are transformational for Derma Sciences and we are looking forward to sharing these data with potential development and commercial partners, and to determining how best to maximize the considerable potential of DSC127 for our shareholders. We are hopeful that a Phase 3 study will show comparably robust results and that, in due course, DSC127 will be brought to market to alleviate the suffering of millions of patients with these debilitating and stubborn wounds."

About Diabetes and Diabetic Foot Ulcers

Diabetes is common, disabling and deadly. In the U.S., diabetes has reached epidemic proportions. According to the American Diabetes Association, about 24 million people (8% of the U.S. population) have diabetes, and nearly 2 million new cases are diagnosed in people age 20 years or older each year. Up to 25% of people with diabetes will develop a diabetic foot ulcer, resulting in 3 million diabetic foot ulcers annually in the U.S. alone. A recent study by researchers at the University of Chicago suggested that treatment costs for diabetes in the United States would reach \$336 billion by the year 2034. According to the World Health Organization, at least 220 million people worldwide have diabetes, a number that is expected to more than double by 2030, due mainly to obesity and aging.

About DSC127

DSC127, a novel angiotensin analog, has been shown to improve epithelialization, granulation and vascularization, accelerating wound healing in a variety of normal and diabetic animal models. This finding suggests that DSC127 produces different actions at the wound site during various stages of healing. There were no safety concerns observed in the preclinical and human Phase 1 studies of DSC127.

Conference Call and Webcast

Derma Sciences management will hold a conference call to discuss this press release and answer questions at 10:00 a.m. Eastern time today. To access the conference call, from the U.S. please dial (888) 563-6275 and from outside the U.S. please dial (706) 634-7417. All listeners should provide the following passcode: 41467730. Individuals interested in listening to the live conference call via the Internet may do so by logging on to the Company's website, www.dermasciences.com.

Following the end of the conference call, a telephone replay will be available through February 10, 2011, and can be accessed by dialing (800) 642-1687 from the U.S. or (706) 645-9291 from outside of the U.S. All listeners should provide the following passcode: 41467730. The webcast will be available for 30 days.

About Derma Sciences, Inc.

Derma Sciences is a medical technology company focused on three segments of the wound care marketplace, traditional dressings, advanced wound care dressings, and pharmaceutical wound care products. Its MEDIHONEY® product is the leading brand of honey-based dressings for the management of wounds and burns. The product has been shown to be effective in a variety of indications, and was the focus of a positive large-scale, randomized controlled trial involving 108 subjects with leg ulcers. Other novel products introduced into the \$14 billion global wound care market include XTRASORB® for better management of wound exudate, and BIOGUARD® for infection prevention. Derma Sciences has successfully completed the treatment phase of a Phase 2 clinical trial in diabetic foot

ulcer healing with DSC127, a novel pharmaceutical drug under development for accelerated wound healing and scar reduction. For more information please visit www.dermasciences.com.

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Forward-Looking Statements

Statements contained in this news release that are not statements of historical fact may be deemed to be forward-looking statements. Without limiting the generality of the foregoing, words such as "may," "will," "expect," "believe," "anticipate," "intend," "could," "estimate" or "continue" are intended to identify forward-looking statements. Readers are cautioned that certain important factors may affect the Company's actual results and could cause such results to differ materially from any forward-looking statements that may be made in this news release or that are otherwise made by or on behalf of the Company. Factors that may affect the Company's results include, but are not limited to, product demand, market acceptance, impact of competitive products and prices, product development, completion of an acquisition, commercialization or technological difficulties, the success or failure of negotiations and trade, legal, social and economic risks. Additional factors that could cause or contribute to differences between the Company's actual results and forward-looking statements include but are not limited to, those discussed in the Company's filings with the U.S. Securities and Exchange Commission.

Contacts:

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