

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

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

Mitcham Industries, Inc.
(Exact name of registrant as specified in its charter)

Texas
(State or other jurisdiction
of incorporation or organization)

76-0210849
(I.R.S. Employer
Identification No.)

**8141 SH 75 South, P.O. Box 1175
Huntsville, Texas 77342
(936) 291-2277**
(Address, including zip code, and telephone number, including area code, of registrant's principal executive offices)

Robert P. Capps
8141 SH 75 South, P.O. Box 1175
Huntsville, Texas 77342
(936) 291-2277
(Name, address, including zip code, and telephone number, including area code, of agent for service)

Copies to:

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First City Tower
1001 Fannin Street, Suite 2500
Houston, Texas 77002-6760
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Facsimile: (713) 615-5794

Approximate date of commencement of proposed sale to the public: From time to time after the effective date of this registration statement as determined by market conditions and other factors.

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 being 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, please 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, 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 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.

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 8(a) may determine.

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer or a smaller reporting company. See the definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act. (Check one):

Large accelerated filer Accelerated filer
Non-accelerated filer (Do not check if a smaller reporting company) Smaller reporting company

CALCULATION OF REGISTRATION FEE

Title of each class of securities to be registered	Amount to be registered	Proposed Maximum Offering Price per Security	Proposed Maximum Aggregate Offering Price	Amount of registration fee
Debt Securities(1)(2)				

Common Stock, par value \$0.01 per share				
Preferred Stock, par value \$1.00 per share(2)				
Warrants(2)				
Total	N/A	N/A	\$150,000,000(3)(4)	\$17,190(4)(5)

- (1) This registration statement also covers an indeterminate amount of securities that may be issued in exchange for, or upon conversion or exercise of, the Debt Securities, Preferred Stock or Warrants being registered.
- (2) The aggregate principal amount of the Debt Securities may be increased if any Debt Securities are issued at an original issue discount, in which case the gross proceeds received will be equal to the amount being registered above. Any offering of Debt Securities denominated in other than United States dollars will be treated as the United States-dollar equivalent calculated using the exchange rate that is applicable at the time of initial offering. The aggregate initial offering price of all securities being registered under this registration statement will not exceed \$150 million (or the foreign-currency or composite-currency equivalents).
- (3) Rule 457(o) of the Securities Act of 1933 (the "Securities Act") permits the registration statement fee to be calculated on the basis of the maximum offering price of all of the securities listed. Therefore, the table does not specify information as to the amount to be registered by each class or the proposed maximum offering price per security.
- (4) No separate consideration will be received for any securities being registered that are issued in exchange for, or upon conversion or exercise of, the Debt Securities, Preferred Stock or Warrants being registered hereunder.
- (5) Pursuant to Rule 457(p) of the Securities Act, we are offsetting the filing fee currently being paid by \$3,094, which amount was previously paid in connection with the filing of Registration Statement No. 333-172935 by Mitcham Industries, Inc. on March 18, 2011 and amended on April 25, 2011.

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The information in this prospectus is not complete and may be changed. This prospectus is not an offer to sell nor does it seek an offer to buy these securities in any jurisdiction where the offer or sale is not permitted. We may not sell these securities until the registration statement filed with the Securities and Exchange Commission is effective.

Subject to completion, dated April 10, 2012

Preliminary Prospectus

\$150,000,000



**Debt Securities
Common Stock
Preferred Stock
Warrants**

We may offer and sell the securities listed above from time to time in one or more offerings in one or more classes or series.

The aggregate initial offering price of the securities that we will offer will not exceed \$150,000,000. We will offer the securities in amounts, at prices and on terms to be determined by market conditions at the time of the offerings. The securities may be offered separately or together in any combination.

This prospectus provides you with a general description of the securities that may be offered. Each time securities are offered, we will provide a prospectus supplement and attach it to this prospectus. The prospectus supplement will contain more specific information about the offering and the terms of the securities being offered. A prospectus supplement may also add, update or change information contained in this prospectus. This prospectus may not be used to offer or sell securities without a prospectus supplement describing the method and terms of the offering.

We may sell these securities directly or through one or more agents, underwriters or dealers, or through a combination of these methods on a continuous or delayed basis. See "Plan of Distribution." This prospectus describes the general terms of these securities and the general manner in which we will offer the securities. The specific terms of any securities we offer will be included in a supplement to this prospectus. The prospectus supplement will also describe the specific manner in which we will offer the securities.

Investing in our securities involves risk. Please read carefully the information included and incorporated by reference in this prospectus and in any applicable prospectus supplement for a discussion of the factors you should consider before deciding to purchase our securities. See "[Risk Factors](#)" beginning on page 2 of this prospectus.

Our common stock is traded on The Nasdaq Global Market (the "Nasdaq") under the symbol "MIND." The last reported sales price of our common stock on the Nasdaq on April 9, 2012 was \$24.09 per share. We will provide information in the prospectus supplement for the trading market, if any, for any debt securities we may offer.

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 _____, 2012.

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This prospectus is part of a registration statement that we have filed with the Securities and Exchange Commission, or the SEC. In making your investment decision, you should rely only on the information contained in this prospectus, any prospectus supplement and the documents that we incorporate by reference. We have not authorized anyone to provide you with any other information. If anyone provides you with different or inconsistent information, you should not rely on it. We are not making an offer of these securities in any jurisdiction where the offer is not permitted.

You should not assume that the information contained in this prospectus or any prospectus supplement is accurate as of any date other than the date on the front of the respective documents. You should not assume that the information contained in the documents incorporated by reference in this prospectus is accurate as of any date other than the respective dates of those documents. Our business, financial condition, results of operations and prospects may have changed since those dates.

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ABOUT THIS PROSPECTUS

This prospectus is a part of a registration statement that we filed with the SEC using a “shelf” registration or continuous offering process. Using this process, we may, over time, offer and sell up to \$150,000,000 of any combination of the securities described in this prospectus in one or more offerings. In this prospectus (including the documents incorporated by reference), we have summarized material provisions of contracts and other documents, which are included as exhibits to the registration statement. For a complete description of their terms, you should review the full text of the documents.

This prospectus provides you with a general description of the securities we may offer. Each time we use this prospectus to offer securities, we will provide you with a prospectus supplement containing specific information about the terms of the securities being offered. That prospectus supplement may include additional risk factors or other considerations applicable to that offering. A prospectus supplement may also add, update or change information in this prospectus. If there is any inconsistency between the information in this prospectus and any prospectus supplement, you should rely on the information in the prospectus supplement. You should read both this prospectus and any prospectus supplement together with the additional information described under the heading “Where You Can Find More Information.”

This prospectus is neither an offer to sell nor a solicitation of an offer to buy securities where an offer or solicitation would be unlawful. You should not assume the information in this prospectus or a prospectus supplement is accurate as of any date other than the date on the front of the documents.

Except as otherwise set forth in this prospectus, “the Company,” “we,” “our,” and “us” refer to Mitcham Industries, Inc. and its consolidated subsidiaries.

MITCHAM INDUSTRIES, INC.

We are engaged directly and through our wholly owned subsidiaries in the lease and sale of geophysical and other equipment used primarily by seismic data acquisition contractors to perform seismic data acquisition surveys on land, in transition zones (marsh and shallow water areas) and deep water marine areas. We conduct our business on a worldwide basis and believe that we are the world’s largest independent lessor of seismic equipment. We operate in two business segments, equipment leasing and manufacturing.

We were incorporated in Texas in 1987. Our principal executive offices are located at 8141 SH 75 South, P.O. Box 1175, Huntsville, Texas 77342. Our common stock is traded on The NASDAQ Global Select Market under the symbol “MIND.”

RISK FACTORS

An investment in our securities involves a significant degree of risk. Before you invest in our securities you should carefully consider those risk factors included in our most recent Annual Report on Form 10-K, any Quarterly Reports on Form 10-Q and any Current Reports on Form 8-K, which are incorporated herein by reference, and those risk factors that may be included in any applicable prospectus supplement, together with all of the other information included in this prospectus, any prospectus supplement and the documents we incorporate by reference, in evaluating an investment in our securities. If any of the risks discussed in the foregoing documents were to occur, our business, financial condition, results of operations and cash flows could be materially adversely affected. Please read “Cautionary Statement Regarding Forward-Looking Statements.”

CAUTIONARY STATEMENT REGARDING FORWARD-LOOKING STATEMENTS

Certain statements contained in or incorporated by reference in this prospectus, our filings with the SEC, which are incorporated by reference herein, and our public releases, including, but not limited to, information regarding the status and progress of our operating activities, the plans and objectives of our management, assumptions regarding our future performance and plans, our liquidity and capital resources, and any financial guidance provided therein may constitute “forward-looking statements” within the meaning of the Private Securities Litigation Reform Act of 1995. The words “believe,” “expect,” “anticipate,” “plan,” “intend,” “foresee,” “should,” “would,” “could” or other similar expressions are intended to identify forward-looking statements, which are not historical in nature. These forward-looking statements are based on our current expectations and beliefs concerning future developments and their potential effect on us. While management believes that these forward-looking statements are reasonable as and when made, there can be no assurance that future developments affecting us will be those that we anticipate. All comments concerning our expectations for future revenues and operating results are based on our forecasts of our existing operations and do not include the potential impact of any future acquisitions. Our forward-looking statements involve significant risks and uncertainties (some of which are beyond our control) and assumptions that could cause actual results to differ materially from our historical experience and our present expectations or projections. Known material factors that could cause our actual results to differ from those in the forward-looking statements are those described under “Risk Factors” in our Annual Report on Form 10-K for the year ended January 31, 2012, as well as those factors summarized below:

- our future financial position and results of operations;
- international and economic instability;
- planned capital expenditures;
- our business strategy and other plans for future operations;
- the future mix of revenues and business;
- our relationship with suppliers;
- our ability to retain customers;
- our liquidity and access to capital;
- risks associated with our international operations;
- the effect of seasonality on our business;
- future demands for our services; and
- general conditions in the energy industry and seismic service industry.

Readers are cautioned not to place reliance on forward-looking statements, which speak only as the date hereof. We undertake no obligation to publicly update or revise any forward-looking statements after the date they are made, whether as a result of new information, future events or otherwise.

USE OF PROCEEDS

Unless we inform you otherwise in a prospectus supplement, we intend to use the net proceeds (after the payment of any offering expenses and/or underwriting discounts and commissions) from the sale of the securities offered hereby for general corporate purposes, including repayment or refinancing of debt, acquisitions, working capital, capital expenditures, and repurchases and redemptions of securities.

Any specific allocation of the net proceeds of an offering of securities to a specific purpose will be determined at the time of the offering and will be described in a prospectus supplement relating to such offering. The precise amount and timing of the application of these proceeds will depend upon our funding requirements and the availability and cost of other funds.

RATIO OF EARNINGS TO FIXED CHARGES

The following table sets forth our ratio of earnings to fixed charges for the periods presented:

	Years Ended January 31,				
	2012	2011	2010	2009	2008
Ratio of earnings to fixed charges	47.39x	9.99x	2.02x	44.26x	82.38x

For purposes of calculating the ratio of consolidated earnings to fixed charges:

- “*earnings*” is the aggregate of the following items: pre-tax income from continuing operations; and
- “*fixed charges*” means the sum of the following: (1) interest expensed and capitalized, (2) amortized premiums, discounts and capitalized expenses related to indebtedness and (3) an estimate of the interest within rental expense.

We did not have any preferred stock outstanding and there were no preferred stock dividends paid or accrued during the periods presented above.

DESCRIPTION OF DEBT SECURITIES

The Debt Securities will be either our senior debt securities (“Senior Debt Securities”) or our subordinated debt securities (“Subordinated Debt Securities”). The Senior Debt Securities and the Subordinated Debt Securities will be issued under separate indentures among us, the Subsidiary Guarantors (defined below) of such Debt Securities, if any, and a trustee to be determined (the “Trustee”). To the extent any of our Debt Securities are guaranteed by Subsidiary Guarantors, we will file a post-effective amendment to the registration statement of which this prospectus forms a part to add any Subsidiary Guarantors as co-registrants. Senior Debt Securities will be issued under a “Senior Indenture” and Subordinated Debt Securities will be issued under a “Subordinated Indenture.” Together, the Senior Indenture and the Subordinated Indenture are called “Indentures.”

The Debt Securities may be issued from time to time in one or more series. The particular terms of each series that are offered by a prospectus supplement will be described in the prospectus supplement.

Unless the Debt Securities are guaranteed by our subsidiaries as described below, the rights of Mitcham Industries, Inc. and our creditors, including holders of the Debt Securities, to participate in the assets of any subsidiary upon the latter’s liquidation or reorganization, will be subject to the prior claims of the subsidiary’s creditors, except to the extent that we may ourselves be a creditor with recognized claims against such subsidiary.

We have summarized selected provisions of the Indentures below. The summary is not complete. The form of each Indenture has been filed with the SEC as an exhibit to the registration statement of which this prospectus is a part, and you should read the Indentures for provisions that may be important to you. Capitalized terms used in the summary have the meanings specified in the Indentures.

General

The Indentures provide that Debt Securities in separate series may be issued thereunder from time to time without limitation as to aggregate principal amount. We may specify a maximum aggregate principal amount for the Debt Securities of any series. We will determine the terms and conditions of the Debt Securities, including the maturity, principal and interest, but those terms must be consistent with the Indenture. The Debt Securities will be our unsecured obligations.

The Subordinated Debt Securities will be subordinated in right of payment to the prior payment in full of all of our Senior Debt (as defined) as described under “—Subordination of Subordinated Debt Securities” and in the prospectus supplement applicable to any Subordinated Debt Securities. If the prospectus supplement so indicates, the Debt Securities will be convertible into our common stock.

If specified in the prospectus supplement respecting a particular series of Debt Securities, and upon the filing of a post-effective amendment to the registration statement of which this prospectus forms a part to add such Subsidiary Guarantors as co-registrants, one or more subsidiary guarantors identified therein (each a “Subsidiary Guarantor”), will jointly and severally fully, and unconditionally guarantee (the “Subsidiary Guarantee”) that series as described under “—Subsidiary Guarantee” and in the prospectus supplement. Each Subsidiary Guarantee will be an unsecured obligation of the Subsidiary Guarantor. A Subsidiary Guarantee of Subordinated Debt Securities will be subordinated to the Senior Debt of the Subsidiary Guarantor on the same basis as the Subordinated Debt Securities are subordinated to our Senior Debt.

The applicable prospectus supplement will set forth the price or prices at which the Debt Securities to be issued will be offered for sale and will describe the following terms of such Debt Securities:

(1) the title of the Debt Securities;

(2) whether the Debt Securities are Senior Debt Securities or Subordinated Debt Securities and, if Subordinated Debt Securities, the related subordination terms;

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- (3) whether any Subsidiary Guarantor will provide a Subsidiary Guarantee of the Debt Securities;
- (4) any limit on the aggregate principal amount of the Debt Securities;
- (5) each date on which the principal of the Debt Securities will be payable;
- (6) the interest rate that the Debt Securities will bear and the interest payment dates for the Debt Securities;
- (7) each place where payments on the Debt Securities will be payable;
- (8) any terms upon which the Debt Securities may be redeemed, in whole or in part, at our option;
- (9) any sinking fund or other provisions that would obligate us to redeem or otherwise repurchase the Debt Securities;
- (10) the portion of the principal amount, if less than all, of the Debt Securities that will be payable upon declaration of acceleration of the Maturity of the Debt Securities;
- (11) whether the Debt Securities are defeasible;
- (12) any addition to or change in the Events of Default;
- (13) whether the Debt Securities are convertible into our common stock and, if so, the terms and conditions upon which conversion will be effected, including the initial conversion price or conversion rate and any adjustments thereto and the conversion period;
- (14) any addition to or change in the covenants in the Indenture applicable to the Debt Securities; and
- (15) any other terms of the Debt Securities not inconsistent with the provisions of the Indenture.

Debt Securities, including any Debt Securities that provide for an amount less than the principal amount thereof to be due and payable upon a declaration of acceleration of the Maturity thereof (“Original Issue Discount Securities”), may be sold at a substantial discount below their principal amount. Special U.S. federal income tax considerations applicable to Debt Securities sold at an original issue discount may be described in the applicable prospectus supplement. In addition, special U.S. federal income tax or other considerations applicable to any Debt Securities that are denominated in a currency or currency unit other than U.S. dollars may be described in the applicable prospectus supplement.

Subordination of Subordinated Debt Securities

The indebtedness evidenced by the Subordinated Debt Securities will, to the extent set forth in the Subordinated Indenture with respect to each series of Subordinated Debt Securities, be subordinate in right of payment to the prior payment in full of all of our Senior Debt, including the Senior Debt Securities, and it may also be senior in right of payment to all of our Subordinated Debt. The prospectus supplement relating to any Subordinated Debt Securities will summarize the subordination provisions of the Subordinated Indenture applicable to that series including:

- the applicability and effect of such provisions upon any payment or distribution respecting that series following any liquidation, dissolution or other winding-up, or any assignment for the benefit of creditors or other marshalling of assets or any bankruptcy, insolvency or similar proceedings;
- the applicability and effect of such provisions in the event of specified defaults with respect to any Senior Debt, including the circumstances under which and the periods during which we will be prohibited from making payments on the Subordinated Debt Securities; and

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- the definition of Senior Debt applicable to the Subordinated Debt Securities of that series and, if the series is issued on a senior subordinated basis, the definition of Subordinated Debt applicable to that series.

The prospectus supplement will also describe as of a recent date the approximate amount of Senior Debt to which the Subordinated Debt Securities of that series will be subordinated.

The failure to make any payment on any of the Subordinated Debt Securities by reason of the subordination provisions of the Subordinated Indenture described in the prospectus supplement will not be construed as preventing the occurrence of an Event of Default with respect to the Subordinated Debt Securities arising from any such failure to make payment.

The subordination provisions described above will not be applicable to payments in respect of the Subordinated Debt Securities from a defeasance trust established in connection with any legal defeasance or covenant defeasance of the Subordinated Debt Securities as described under “—Legal Defeasance and Covenant Defeasance.”

Subsidiary Guarantee

If specified in the prospectus supplement and upon the filing of a post-effective amendment to the registration statement of which this prospectus forms a part to add such Subsidiary Guarantors as co-registrants, one or more of the Subsidiary Guarantors will guarantee the Debt Securities of a series. Unless otherwise indicated in the prospectus supplement, the following provisions will apply to the Subsidiary Guarantee of the Subsidiary Guarantor.

Subject to the limitations described below and in the prospectus supplement, one or more of the Subsidiary Guarantors will jointly and severally, fully and unconditionally guarantee the punctual payment when due, whether at Stated Maturity, by acceleration or otherwise, of all our payment obligations under the Indentures and the Debt Securities of a series, whether for principal of, premium, if any, or interest on the Debt Securities or otherwise (all such obligations guaranteed by a Subsidiary Guarantor being herein called the “Guaranteed Obligations”). The Subsidiary Guarantors will also pay all expenses (including reasonable counsel fees and expenses) incurred by the applicable Trustee in enforcing any rights under a Subsidiary Guarantee with respect to a Subsidiary Guarantor.

In the case of Subordinated Debt Securities, a Subsidiary Guarantor’s Subsidiary Guarantee will be subordinated in right of payment to the Senior Debt of such Subsidiary Guarantor on the same basis as the Subordinated Debt Securities are subordinated to our Senior Debt. No payment will be made by any Subsidiary Guarantor under its Subsidiary Guarantee during any period in which payments by us on the Subordinated Debt Securities are suspended by the subordination provisions of the Subordinated Indenture.

Each Subsidiary Guarantee will be limited in amount to an amount not to exceed the maximum amount that can be guaranteed by the Subsidiary Guarantor without rendering such Subsidiary Guarantee voidable under applicable law relating to fraudulent conveyance or fraudulent transfer or similar laws affecting the rights of creditors generally.

Each Subsidiary Guarantee will be a continuing guarantee and will:

- (1) remain in full force and effect until either (a) payment in full of all the applicable Debt Securities (or such Debt Securities are otherwise satisfied and discharged in accordance with the provisions of the applicable Indenture) or (b) released as described in the following paragraph;
- (2) be binding upon each Subsidiary Guarantor; and

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(3) inure to the benefit of and be enforceable by the applicable Trustee, the Holders and their successors, transferees and assigns.

In the event that (a) a Subsidiary Guarantor ceases to be a Subsidiary, (b) either legal defeasance or covenant defeasance occurs with respect to the series or (c) all or substantially all of the assets or all of the Capital Stock of such Subsidiary Guarantor is sold, including by way of sale, merger, consolidation or otherwise, such Subsidiary Guarantor will be released and discharged of its obligations under its Subsidiary Guarantee without any further action required on the part of the Trustee or any Holder, and no other person acquiring or owning the assets or Capital Stock of such Subsidiary Guarantor will be required to enter into a Subsidiary Guarantee. In addition, the prospectus supplement may specify additional circumstances under which a Subsidiary Guarantor can be released from its Subsidiary Guarantee.

Form, Exchange and Transfer

The Debt Securities of each series will be issuable only in fully registered form, without coupons, and, unless otherwise specified in the applicable prospectus supplement, only in denominations of \$1,000 and integral multiples thereof.

At the option of the Holder, subject to the terms of the applicable Indenture and the limitations applicable to Global Securities, Debt Securities of each series will be exchangeable for other Debt Securities of the same series of any authorized denomination and of a like tenor and aggregate principal amount.

Subject to the terms of the applicable Indenture and the limitations applicable to Global Securities, Debt Securities may be presented for exchange as provided above or for registration of transfer (duly endorsed or with the form of transfer endorsed thereon duly executed) at the office of the Security Registrar or at the office of any transfer agent designated by us for such purpose. No service charge will be made for any registration of transfer or exchange of Debt Securities, but we may require payment of a sum sufficient to cover any tax or other governmental charge payable in that connection. Such transfer or exchange will be effected upon the Security Registrar or such transfer agent, as the case may be, being satisfied with the documents of title and identity of the person making the request. The Security Registrar and any other transfer agent initially designated by us for any Debt Securities will be named in the applicable prospectus supplement. We may at any time designate additional transfer agents or rescind the designation of any transfer agent or approve a change in the office through which any transfer agent acts, except that we will be required to maintain a transfer agent in each Place of Payment for the Debt Securities of each series.

If the Debt Securities of any series (or of any series and specified tenor) are to be redeemed in part, we will not be required to (1) issue, register the transfer of or exchange any Debt Security of that series (or of that series and specified tenor, as the case may be) during a period beginning at the opening of business 15 days before the day of mailing of a notice of redemption of any such Debt Security that may be selected for redemption and ending at the close of business on the day of such mailing or (2) register the transfer of or exchange any Debt Security so selected for redemption, in whole or in part, except the unredeemed portion of any such Debt Security being redeemed in part.

Global Securities

Some or all of the Debt Securities of any series may be represented, in whole or in part, by one or more Global Securities that will have an aggregate principal amount equal to that of the Debt Securities they represent. Each Global Security will be registered in the name of a Depositary or its nominee identified in the applicable prospectus supplement, will be deposited with such Depositary or nominee or its custodian and will bear a legend regarding the restrictions on exchanges and registration of transfer thereof referred to below and any such other matters as may be provided for pursuant to the applicable Indenture.

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Notwithstanding any provision of the Indentures or any Debt Security described in this prospectus, no Global Security may be exchanged in whole or in part for Debt Securities registered, and no transfer of a Global Security in whole or in part may be registered, in the name of any Person other than the Depositary for such Global Security or any nominee of such Depositary unless:

- (1) the Depositary has notified us that it is unwilling or unable to continue as Depositary for such Global Security or has ceased to be qualified to act as such as required by the applicable Indenture, and in either case we fail to appoint a successor Depositary within 90 days;
- (2) an Event of Default with respect to the Debt Securities represented by such Global Security has occurred and is continuing and the Trustee has received a written request from the Depositary to issue certificated Debt Securities;
- (3) subject to the rules of the Depositary, we shall have elected to terminate the book-entry system through the Depositary; or
- (4) other circumstances exist, in addition to or in lieu of those described above, as may be described in the applicable prospectus supplement.

All certificated Debt Securities issued in exchange for a Global Security or any portion thereof will be registered in such names as the Depositary may direct.

As long as the Depositary, or its nominee, is the registered holder of a Global Security, the Depositary or such nominee, as the case may be, will be considered the sole owner and Holder of such Global Security and the Debt Securities that it represents for all purposes under the Debt Securities and the applicable Indenture. Except in the limited circumstances referred to above, owners of beneficial interests in a Global Security will not be entitled to have such Global Security or any Debt Securities that it represents registered in their names, will not receive or be entitled to receive physical delivery of certificated Debt Securities in exchange for those interests and will not be considered to be the owners or Holders of such Global Security or any Debt Securities that it represents for any purpose under the Debt Securities or the applicable Indenture. All payments on a Global Security will be made to the Depositary or its nominee, as the case may be, as the Holder of the security. The laws of some jurisdictions may require that some purchasers of Debt Securities take physical delivery of such Debt Securities in certificated form. These laws may impair the ability to transfer beneficial interests in a Global Security.

Ownership of beneficial interests in a Global Security will be limited to institutions that have accounts with the Depositary or its nominee (“participants”) and to persons that may hold beneficial interests through participants. In connection with the issuance of any Global Security, the Depositary will credit, on its book-entry registration and transfer system, the respective principal amounts of Debt Securities represented by the Global Security to the accounts of its participants. Ownership of beneficial interests in a Global Security will be shown only on, and the transfer of those ownership interests will be effected only through, records maintained by the Depositary (with respect to participants’ interests) or any such participant (with respect to interests of Persons held by such participants on their behalf). Payments, transfers, exchanges and other matters relating to beneficial interests in a Global Security may be subject to various policies and procedures adopted by the Depositary from time to time. None of us, the Subsidiary Guarantors, the Trustees or the agents of us, the Subsidiary Guarantors or the Trustees will have any responsibility or liability for any aspect of the Depositary’s or any participant’s records relating to, or for payments made on account of, beneficial interests in a Global Security, or for maintaining, supervising or reviewing any records relating to such beneficial interests.

Payment and Paying Agents

Unless otherwise indicated in the applicable prospectus supplement, payment of interest on a Debt Security on any Interest Payment Date will be made to the Person in whose name such Debt Security (or one or more Predecessor Securities) is registered at the close of business on the Regular Record Date for such interest.

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Unless otherwise indicated in the applicable prospectus supplement, principal of and any premium and interest on the Debt Securities of a particular series will be payable at the office of such Paying Agent or Paying Agents as we may designate for such purpose from time to time, except that at our option payment of any interest on Debt Securities in certificated form may be made by check mailed to the address of the Person entitled thereto as such address appears in the Security Register. Unless otherwise indicated in the applicable prospectus supplement, the corporate trust office of the Trustee under the Senior Indenture in The City of New York will be designated as sole Paying Agent for payments with respect to Senior Debt Securities of each series, and the corporate trust office of the Trustee under the Subordinated Indenture in The City of New York will be designated as the sole Paying Agent for payment with respect to Subordinated Debt Securities of each series. Any other Paying Agents initially designated by us for the Debt Securities of a particular series will be named in the applicable prospectus supplement. We may at any time designate additional Paying Agents or rescind the designation of any Paying Agent or approve a change in the office through which any Paying Agent acts, except that we will be required to maintain a Paying Agent in each Place of Payment for the Debt Securities of a particular series.

All money paid by us to a Paying Agent for the payment of the principal of or any premium or interest on any Debt Security which remains unclaimed at the end of two years after such principal, premium or interest has become due and payable will be repaid to us, and the Holder of such Debt Security thereafter may look only to us for payment.

Consolidation, Merger and Sale of Assets

Unless otherwise specified in the prospectus supplement, we may not consolidate with or merge into, or transfer, lease or otherwise dispose of all or substantially all of our assets to, any Person (a "successor Person"), and may not permit any Person to consolidate with or merge into us, unless:

- (1) the successor Person (if not us) is a corporation, partnership, trust or other entity organized and validly existing under the laws of any domestic jurisdiction and assumes our obligations on the Debt Securities and under the Indentures;
- (2) immediately before and after giving pro forma effect to the transaction, no Event of Default, and no event which, after notice or lapse of time or both, would become an Event of Default, has occurred and is continuing; and
- (3) several other conditions, including any additional conditions with respect to any particular Debt Securities specified in the applicable prospectus supplement, are met.

The successor Person (if not us) will be substituted for us under the applicable Indenture with the same effect as if it had been an original party to such Indenture, and, except in the case of a lease, we will be relieved from any further obligations under such Indenture and the Debt Securities.

Events of Default

Unless otherwise specified in the prospectus supplement, each of the following will constitute an Event of Default under the applicable Indenture with respect to Debt Securities of any series:

- (1) failure to pay principal of or any premium on any Debt Security of that series when due, whether or not, in the case of Subordinated Debt Securities, such payment is prohibited by the subordination provisions of the Subordinated Indenture;
- (2) failure to pay any interest on any Debt Securities of that series when due, continued for 30 days, whether or not, in the case of Subordinated Debt Securities, such payment is prohibited by the subordination provisions of the Subordinated Indenture;

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(3) failure to deposit any sinking fund payment, when due, in respect of any Debt Security of that series, whether or not, in the case of Subordinated Debt Securities, such deposit is prohibited by the subordination provisions of the Subordinated Indenture;

(4) failure to perform or comply with the provisions described under “—Consolidation, Merger and Sale of Assets”;

(5) failure to perform any of our other covenants in such Indenture (other than a covenant included in such Indenture solely for the benefit of a series other than that series), continued for 60 days after written notice has been given by the applicable Trustee, or the Holders of at least 25% in principal amount of the Outstanding Debt Securities of that series, as provided in such Indenture;

(6) any Debt of ourself, any Significant Subsidiary or, if a Subsidiary Guarantor has guaranteed the series, each such Subsidiary Guarantor, is not paid within any applicable grace period after final maturity or is accelerated by its holders because of a default and the total amount of such Debt unpaid or accelerated exceeds \$20.0 million;

(7) any judgment or decree for the payment of money in excess of \$20.0 million is entered against us, any Significant Subsidiary or, if a Subsidiary Guarantor has guaranteed the series, such Subsidiary Guarantor, remains outstanding for a period of 60 consecutive days following entry of such judgment and is not discharged, waived or stayed;

(8) certain events of bankruptcy, insolvency or reorganization affecting us, any Significant Subsidiary or, if a Subsidiary Guarantor has guaranteed the series, such Subsidiary Guarantor; and

(9) if any Subsidiary Guarantor has guaranteed such series, the Subsidiary Guarantee of any such Subsidiary Guarantor is held by a final non-appealable order or judgment of a court of competent jurisdiction to be unenforceable or invalid or ceases for any reason to be in full force and effect (other than in accordance with the terms of the applicable Indenture) or any Subsidiary Guarantor or any Person acting on behalf of any Subsidiary Guarantor denies or disaffirms such Subsidiary Guarantor’s obligations under its Subsidiary Guarantee (other than by reason of a release of such Subsidiary Guarantor from its Subsidiary Guarantee in accordance with the terms of the applicable Indenture).

If an Event of Default (other than an Event of Default with respect to Mitcham Industries, Inc. described in clause (8) above) with respect to the Debt Securities of any series at the time Outstanding occurs and is continuing, either the applicable Trustee or the Holders of at least 25% in principal amount of the Outstanding Debt Securities of that series by notice as provided in the Indenture may declare the principal amount of the Debt Securities of that series (or, in the case of any Debt Security that is an Original Issue Discount Debt Security, such portion of the principal amount of such Debt Security as may be specified in the terms of such Debt Security) to be due and payable immediately, together with any accrued and unpaid interest thereon. If an Event of Default with respect to Mitcham Industries, Inc. described in clause (8) above with respect to the Debt Securities of any series at the time Outstanding occurs, the principal amount of all the Debt Securities of that series (or, in the case of any such Original Issue Discount Security, such specified amount) will automatically, and without any action by the applicable Trustee or any Holder, become immediately due and payable, together with any accrued and unpaid interest thereon. After any such acceleration and its consequences, but before a judgment or decree based on acceleration, the Holders of a majority in principal amount of the Outstanding Debt Securities of that series may, under certain circumstances, rescind and annul such acceleration if all Events of Default with respect to that series, other than the non-payment of accelerated principal (or other specified amount), have been cured or waived as provided in the applicable Indenture. For information as to waiver of defaults, please read “—Modification and Waiver” below.

Subject to the provisions of the Indentures relating to the duties of the Trustees in case an Event of Default has occurred and is continuing, no Trustee will be under any obligation to exercise any of its rights or powers

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under the applicable Indenture at the request or direction of any of the Holders, unless such Holders have offered to such Trustee reasonable security or indemnity. Subject to such provisions for the indemnification of the Trustees, the Holders of a majority in principal amount of the Outstanding Debt Securities of any series will have the right to direct the time, method and place of conducting any proceeding for any remedy available to the Trustee or exercising any trust or power conferred on the Trustee with respect to the Debt Securities of that series.

No Holder of a Debt Security of any series will have any right to institute any proceeding with respect to the applicable Indenture, or for the appointment of a receiver or a trustee, or for any other remedy thereunder, unless:

(1) such Holder has previously given to the Trustee under the applicable Indenture written notice of a continuing Event of Default with respect to the Debt Securities of that series;

(2) the Holders of at least 25% in principal amount of the Outstanding Debt Securities of that series have made written request, and such Holder or Holders have offered reasonable security or indemnity, to the Trustee to institute such proceeding as trustee; and

(3) the Trustee has failed to institute such proceeding, and has not received from the Holders of a majority in principal amount of the Outstanding Debt Securities of that series a direction inconsistent with such request, within 60 days after such notice, request and offer.

However, such limitations do not apply to a suit instituted by a Holder of a Debt Security for the enforcement of payment of the principal of or any premium or interest on such Debt Security on or after the applicable due date specified in such Debt Security or, if applicable, to convert such Debt Security.

We will be required to furnish to each Trustee annually a statement by certain of our officers as to whether or not we, to their knowledge, are in default in the performance or observance of any of the terms, provisions and conditions of the applicable Indenture and, if so, specifying all such known defaults.

Modification and Waiver

We may modify or amend an Indenture without the consent of any holders of the Debt Securities in certain circumstances, including:

(1) to evidence the succession under the Indenture of another Person to us or any Subsidiary Guarantor and to provide for its assumption of our or such Subsidiary Guarantor's obligations to holders of Debt Securities;

(2) to make any changes that would add any additional covenants of us or the Subsidiary Guarantors for the benefit of the holders of Debt Securities or that do not adversely affect the rights under the Indenture of the Holders of Debt Securities in any material respect;

(3) to add any additional Events of Default;

(4) to provide for uncertificated notes in addition to or in place of certificated notes;

(5) to secure the Debt Securities;

(6) to establish the form or terms of any series of Debt Securities;

(7) to evidence and provide for the acceptance of appointment under the Indenture of a successor Trustee;

(8) to cure any ambiguity, defect or inconsistency;

(9) to add Subsidiary Guarantors; or

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(10) in the case of any Subordinated Debt Security, to make any change in the subordination provisions that limits or terminates the benefits applicable to any Holder of Senior Debt.

Other modifications and amendments of an Indenture may be made by us, the Subsidiary Guarantors, if applicable, and the applicable Trustee with the consent of the Holders of not less than a majority in principal amount of the Outstanding Debt Securities of each series affected by such modification or amendment; provided, however, that no such modification or amendment may, without the consent of the Holder of each Outstanding Debt Security affected thereby:

- (1) change the Stated Maturity of the principal of, or any installment of principal of or interest on, any Debt Security;
- (2) reduce the principal amount of, or any premium or interest on, any Debt Security;
- (3) reduce the amount of principal of an Original Issue Discount Security or any other Debt Security payable upon acceleration of the Maturity thereof;
- (4) change the place or currency of payment of principal of, or any premium or interest on, any Debt Security;
- (5) impair the right to institute suit for the enforcement of any payment due on or any conversion right with respect to any Debt Security;
- (6) modify the subordination provisions in the case of Subordinated Debt Securities, or modify any conversion provisions, in either case in a manner adverse to the Holders of the Subordinated Debt Securities;
- (7) except as provided in the applicable Indenture, release the Subsidiary Guarantee of a Subsidiary Guarantor;
- (8) reduce the percentage in principal amount of Outstanding Debt Securities of any series, the consent of whose Holders is required for modification or amendment of the Indenture;
- (9) reduce the percentage in principal amount of Outstanding Debt Securities of any series necessary for waiver of compliance with certain provisions of the Indenture or for waiver of certain defaults;
- (10) modify such provisions with respect to modification, amendment or waiver; or
- (11) following the making of an offer to purchase Debt Securities from any Holder that has been made pursuant to a covenant in such Indenture, modify such covenant in a manner adverse to such Holder.

The Holders of not less than a majority in principal amount of the Outstanding Debt Securities of any series may waive compliance by us with certain restrictive provisions of the applicable Indenture. The Holders of not less than a majority in principal amount of the Outstanding Debt Securities of any series may waive any past default under the applicable Indenture, except a default in the payment of principal, premium or interest and certain covenants and provisions of the Indenture which cannot be amended without the consent of the Holder of each Outstanding Debt Security of such series.

Each of the Indentures provides that in determining whether the Holders of the requisite principal amount of the Outstanding Debt Securities have given or taken any direction, notice, consent, waiver or other action under such Indenture as of any date:

- (1) the principal amount of an Original Issue Discount Security that will be deemed to be Outstanding will be the amount of the principal that would be due and payable as of such date upon acceleration of maturity to such date;

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(2) if, as of such date, the principal amount payable at the Stated Maturity of a Debt Security is not determinable (for example, because it is based on an index), the principal amount of such Debt Security deemed to be Outstanding as of such date will be an amount determined in the manner prescribed for such Debt Security;

(3) the principal amount of a Debt Security denominated in one or more foreign currencies or currency units that will be deemed to be Outstanding will be the United States-dollar equivalent, determined as of such date in the manner prescribed for such Debt Security, of the principal amount of such Debt Security (or, in the case of a Debt Security described in clause (1) or (2) above, of the amount described in such clause); and

(4) certain Debt Securities, including those owned by us, any Subsidiary Guarantor or any of our other Affiliates, will not be deemed to be Outstanding.

Except in certain limited circumstances, we will be entitled to set any day as a record date for the purpose of determining the Holders of Outstanding Debt Securities of any series entitled to give or take any direction, notice, consent, waiver or other action under the applicable Indenture, in the manner and subject to the limitations provided in the Indenture. In certain limited circumstances, the Trustee will be entitled to set a record date for action by Holders. If a record date is set for any action to be taken by Holders of a particular series, only persons who are Holders of Outstanding Debt Securities of that series on the record date may take such action. To be effective, such action must be taken by Holders of the requisite principal amount of such Debt Securities within a specified period following the record date. For any particular record date, this period will be 180 days or such other period as may be specified by us (or the Trustee, if it set the record date), and may be shortened or lengthened (but not beyond 180 days) from time to time.

Satisfaction and Discharge

Each Indenture will be discharged and will cease to be of further effect as to all outstanding Debt Securities of any series issued thereunder, when: either:

(1) (a) all outstanding Debt Securities of that series that have been authenticated (except lost, stolen or destroyed Debt Securities that have been replaced or paid and Debt Securities for whose payment money has theretofore been deposited in trust and thereafter repaid to us) have been delivered to the Trustee for cancellation; or

(b) all outstanding Debt Securities of that series that have been not delivered to the Trustee for cancellation have become due and payable or will become due and payable at their Stated Maturity within one year or are to be called for redemption within one year under arrangements satisfactory to the Trustee and in any case we have irrevocably deposited with the Trustee as trust funds money in an amount sufficient, without consideration of any reinvestment of interest, to pay the entire indebtedness of such Debt Securities not delivered to the Trustee for cancellation, for principal, premium, if any, and accrued interest to the Stated Maturity or redemption date;

(2) we have paid or caused to be paid all other sums payable by us under the Indenture with respect to the Debt Securities of that series; and

(3) we have delivered an Officers' Certificate and an Opinion of Counsel to the Trustee stating that all conditions precedent to satisfaction and discharge of the Indenture with respect to the Debt Securities of that series have been satisfied.

Legal Defeasance and Covenant Defeasance

To the extent indicated in the applicable prospectus supplement, we may elect, at our option at any time, to have our obligations discharged under provisions relating to defeasance and discharge of indebtedness, which we call "legal defeasance," or relating to defeasance of certain restrictive covenants applied to the Debt Securities of any series, or to any specified part of a series, which we call "covenant defeasance."

Legal Defeasance

The Indentures provide that, upon our exercise of our option (if any) to have the legal defeasance provisions applied to any series of Debt Securities, we, and, if applicable, each Subsidiary Guarantor will be discharged from all our obligations, and, if such Debt Securities are Subordinated Debt Securities, the provisions of the Subordinated Indenture relating to subordination will cease to be effective, with respect to such Debt Securities (except for certain obligations to convert, exchange or register the transfer of Debt Securities, to replace stolen, lost or mutilated Debt Securities, to maintain paying agencies and to hold moneys for payment in trust) upon the deposit in trust for the benefit of the Holders of such Debt Securities of money or U.S. Government Obligations, or both, which, through the payment of principal and interest in respect thereof in accordance with their terms, will provide money in an amount sufficient (in the opinion of a nationally recognized firm of independent public accountants) to pay the principal of and any premium and interest on such Debt Securities on the respective Stated Maturities in accordance with the terms of the applicable Indenture and such Debt Securities. Such defeasance or discharge may occur only if, among other things:

(1) we have delivered to the applicable Trustee an Opinion of Counsel to the effect that we have received from, or there has been published by, the United States Internal Revenue Service a ruling, or there has been a change in tax law, in either case to the effect that Holders of such Debt Securities will not recognize gain or loss for federal income tax purposes as a result of such deposit and legal defeasance and will be subject to federal income tax on the same amount, in the same manner and at the same times as would have been the case if such deposit and legal defeasance were not to occur;

(2) no Event of Default or event that with the passing of time or the giving of notice, or both, shall constitute an Event of Default shall have occurred and be continuing at the time of such deposit or, with respect to any Event of Default described in clause (8) under “—Events of Default,” at any time until 121 days after such deposit;

(3) such deposit and legal defeasance will not result in a breach or violation of, or constitute a default under, any agreement or instrument (other than the applicable Indenture) to which we are a party or by which we are bound;

(4) in the case of Subordinated Debt Securities, at the time of such deposit, no default in the payment of all or a portion of principal of (or premium, if any) or interest on any Senior Debt shall have occurred and be continuing, no event of default shall have resulted in the acceleration of any Senior Debt and no other event of default with respect to any Senior Debt shall have occurred and be continuing permitting after notice or the lapse of time, or both, the acceleration thereof; and

(5) we have delivered to the Trustee an Opinion of Counsel to the effect that such deposit shall not cause the Trustee or the trust so created to be subject to the Investment Company Act of 1940.

Covenant Defeasance

The Indentures provide that, upon our exercise of our option (if any) to have the covenant defeasance provisions applied to any Debt Securities, we may fail to comply with certain restrictive covenants (but not with respect to conversion, if applicable), including those that may be described in the applicable prospectus supplement, and the occurrence of certain Events of Default, which are described above in clause (5) (with respect to such restrictive covenants) and clauses (6), (7) and (9) under “Events of Default” and any that may be described in the applicable prospectus supplement, will not be deemed to either be or result in an Event of Default and, if such Debt Securities are Subordinated Debt Securities, the provisions of the Subordinated Indenture relating to subordination will cease to be effective, in each case with respect to such Debt Securities. In order to exercise such option, we must deposit, in trust for the benefit of the Holders of such Debt Securities, money or U.S. Government Obligations, or both, which, through the payment of principal and interest in respect thereof in accordance with their terms, will provide money in an amount sufficient (in the opinion of a nationally

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recognized firm of independent public accountants) to pay the principal of and any premium and interest on such Debt Securities on the respective Stated Maturities in accordance with the terms of the applicable Indenture and such Debt Securities. Such covenant defeasance may occur only if we have delivered to the applicable Trustee an Opinion of Counsel to the effect that Holders of such Debt Securities will not recognize gain or loss for federal income tax purposes as a result of such deposit and covenant defeasance and will be subject to federal income tax on the same amount, in the same manner and at the same times as would have been the case if such deposit and covenant defeasance were not to occur, and the requirements set forth in clauses (2), (3), (4) and (5) above are satisfied. If we exercise this option with respect to any series of Debt Securities and such Debt Securities were declared due and payable because of the occurrence of any Event of Default, the amount of money and U.S. Government Obligations so deposited in trust would be sufficient to pay amounts due on such Debt Securities at the time of their respective Stated Maturities but may not be sufficient to pay amounts due on such Debt Securities upon any acceleration resulting from such Event of Default. In such case, we would remain liable for such payments.

If we exercise either our legal defeasance or covenant defeasance option, any Subsidiary Guarantee will terminate.

Notices

Notices to Holders of Debt Securities will be given by mail to the addresses of such Holders as they may appear in the Security Register.

Title

We, any Subsidiary Guarantors, the Trustees and any agent of us, any Subsidiary Guarantors or a Trustee may treat the Person in whose name a Debt Security is registered as the absolute owner of the Debt Security (whether or not such Debt Security may be overdue) for the purpose of making payment and for all other purposes.

Governing Law

The Indentures and the Debt Securities will be governed by, and construed in accordance with, the law of the State of New York.

The Trustee

We will enter into the Indentures with a Trustee that is qualified to act under the Trust Indenture Act of 1939, as amended, and with any other Trustees chosen by us and appointed in a supplemental indenture for a particular series of Debt Securities. We may maintain a banking relationship in the ordinary course of business with our Trustee and one or more of its affiliates.

Resignation or Removal of Trustee

If the Trustee has or acquires a conflicting interest within the meaning of the Trust Indenture Act, the Trustee must either eliminate its conflicting interest or resign, to the extent and in the manner provided by, and subject to the provisions of, the Trust Indenture Act and the applicable Indenture. Any resignation will require the appointment of a successor Trustee under the applicable Indenture in accordance with the terms and conditions of such Indenture.

The Trustee may resign or be removed by us with respect to one or more series of Debt Securities and a successor Trustee may be appointed to act with respect to any such series. The holders of a majority in aggregate principal amount of the Debt Securities of any series may remove the Trustee with respect to the Debt Securities of such series.

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Limitations on Trustee if It Is Our Creditor

Each Indenture will contain certain limitations on the right of the Trustee, in the event that it becomes our creditor, to obtain payment of claims in certain cases, or to realize on certain property received in respect of any such claim as security or otherwise.

Certificates and Opinions to Be Furnished to Trustee

Each Indenture will provide that, in addition to other certificates or opinions that may be specifically required by other provisions of an Indenture, every application by us for action by the Trustee must be accompanied by an Officers' Certificate and an Opinion of Counsel stating that, in the opinion of the signers, all conditions precedent to such action have been complied with by us.

DESCRIPTION OF CAPITAL STOCK

Our certificate of incorporation authorizes us to issue (i) 21,000,000 shares of capital stock, consisting of 20,000,000 shares of common stock, par value \$.01 per share, of which 12,680,959 shares were outstanding as of April 9, 2012, and (ii) 1,000,000 shares of preferred stock, par value \$1.00 per share, of which none were outstanding as of April 9, 2012. The summary is also subject to applicable provisions of our amended and restated articles of incorporation.

Common Stock

Outstanding shares of our common stock are listed on the Nasdaq under the symbol "MIND." Any additional common stock we issue will be listed on the Nasdaq. Our common shareholders are entitled to one vote per share of common stock in the election of directors and on all other matters on which shareholders are entitled or permitted to vote. Holders of our common stock do not have cumulative voting rights. Therefore, subject to any voting rights that may be later granted to holders of any preferred stock we may issue, under our bylaws, holders of a plurality of the common stock present in person or represented by proxy at the meeting and entitled to vote can elect all of our directors. Subject to the rights of any outstanding series of our preferred stock, our common shareholders are entitled to dividends when and if declared by our board of directors out of funds legally available for that purpose. Our common stock is not subject to any calls or assessments. Upon liquidation or dissolution, our common shareholders are entitled to share ratably in all net assets distributable to shareholders after payment of any liquidation preferences to holders of our preferred stock. Holders of our common stock have no redemption, conversion or preemptive rights.

Preferred Stock

We can issue up to 1,000,000 shares of our preferred stock in one or more series without shareholder approval, in one or more series, and can determine, for any series of preferred stock, the terms and rights of the series, including:

- the number of shares, designation and stated value of the series;
- the rate and times at which dividends will be payable on shares of the series, any preferences of such dividends over other shares of the series or shares of other series or classes of our capital stock, and the status of dividends as cumulative or non-cumulative;
- any prices, times and terms at or on which shares of the series may be redeemed;
- any obligation of ours to purchase or redeem shares of the series pursuant to a sinking or purchase fund for shares of the series, and the terms of any such obligation;
- any rights to convert shares of the series into, or exchange shares of the series for, shares of any other class of our capital stock;
- the voting rights, if any, for shares of the series;
- any rights and preferences of shares of the series upon any liquidation, dissolution or winding up of our affairs or any distribution of our assets;
- any conditions or restrictions upon the creation of indebtedness, issuances of any additional stock, or payment of dividends or the making of other distributions on the purchase, redemption or other acquisition of any of our outstanding capital stock; and
- any other relative rights, powers, preferences, qualifications, limitations or restrictions of any series.

Any issuance of our preferred stock may adversely affect the voting powers or rights of the holders of our common stock.

Effect of Certain Provisions of our Bylaws and the Texas Affiliated Business Combinations Statute.

We are subject to Section 21.606 of the Texas Business Organizations Code. That section prohibits Texas corporations from engaging in a wide range of specified transactions with any affiliated shareholder during the three-year period immediately following the affiliated shareholder's acquisition of shares in the absence of certain board of director or shareholder approvals. An affiliated shareholder of a corporation is any person, other than the corporation and any of its wholly owned subsidiaries, that is or was within the preceding three-year period the beneficial owner of 20% or more of the outstanding shares of stock entitled to vote generally in the election of directors. Section 21.606 may deter any potential unfriendly offers or other efforts to obtain control of us that are not approved by our board. This may deprive our shareholders of opportunities to sell shares of our common stock at a premium to the prevailing market price.

Certain provisions in our bylaws may encourage persons considering unsolicited tender offers or other unilateral takeover proposals to negotiate with our board of directors rather than pursue non-negotiated takeover attempts. As discussed above, our board of directors can set the voting rights, redemption rights, conversion rights and other rights relating to authorized but unissued shares of preferred stock and could issue that stock in either private or public transactions. Preferred stock could be issued for the purpose of preventing a merger, tender offer or other takeover attempt which the board of directors opposes.

Transfer Agent And Registrar

The transfer agent and registrar for our common stock is American Stock Transfer & Trust Company, New York, New York.

DESCRIPTION OF WARRANTS

General Description of Warrants

We may issue warrants for the purchase of debt securities, preferred stock or common stock. Warrants may be issued independently or together with other securities and may be attached to or separate from any such offered securities. Each series of warrants will be issued under a separate warrant agreement to be entered into between us and a bank or trust company, as warrant agent, all as set forth in the prospectus supplement relating to the particular issue of warrants. The warrant agent will act solely as our agent in connection with the warrants and will not assume any obligation or relationship of agency or trust for or with any holders of warrants or beneficial owners of warrants. The following summary of certain provisions of the warrants does not purport to be complete and is subject to, and is qualified in its entirety by reference to, all provisions of the warrant agreements. A copy of the warrant agreement will be filed with the SEC in connection with the offering of warrants.

Debt Warrants

The prospectus supplement relating to a particular issue of warrants to purchase debt securities will describe the terms of those warrants, including the following:

- the title of the warrants;
- the offering price for the warrants, if any;
- the aggregate number of the warrants;
- the designation and terms of the debt securities that may be purchased upon exercise of the warrants;
- if applicable, the designation and terms of the debt securities that the warrants are issued with and the number of warrants issued with each debt security;
- if applicable, the date from and after which the warrants and any debt securities issued with them will be separately transferable;
- the principal amount of debt securities that may be purchased upon exercise of a warrant and the price at which the debt securities may be purchased upon exercise;
- the dates on which the right to exercise the warrants will commence and expire;
- if applicable, the minimum or maximum amount of the warrants that may be exercised at any one time;
- whether the warrants represented by the warrant certificates or the debt securities that may be issued upon exercise of the warrants will be issued in registered or bearer form;
- information relating to book-entry procedures, if any;
- the currency or currency units in which the offering price, if any, and the exercise price are payable;
- if applicable, a discussion of material U.S. federal income tax considerations;
- anti-dilution provisions of the warrants, if any;
- redemption or call provisions, if any, applicable to the warrants;
- any additional terms of the warrants, including terms, procedures and limitations relating to the exchange and exercise of the warrants; and
- any other information we think is important about the warrants.

Stock Warrants

The prospectus supplement relating to a particular issue of warrants to purchase common stock or preferred stock will describe the terms of the common stock warrants and preferred stock warrants, including the following:

- the title of the warrants;
- the offering price for the warrants, if any;
- the aggregate number of the warrants;
- the designation and terms of the common stock or preferred stock that maybe purchased upon exercise of the warrants;
- if applicable, the designation and terms of the securities that the warrants are issued with and the number of warrants issued with each security;
- if applicable, the date from and after which the warrants and any securities issued with the warrants will be separately transferable;
- the number of shares of common stock or preferred stock that may be purchased upon exercise of a warrant and the price at which the shares may be purchased upon exercise;
- the dates on which the right to exercise the warrants commence and expire;
- if applicable, the minimum or maximum amount of the warrants that may be exercised at any one time;
- the currency or currency units in which the offering price, if any, and the exercise price are payable;
- if applicable, a discussion of material U.S. federal income tax considerations;
- anti-dilution provisions of the warrants, if any;
- redemption or call provisions, if any, applicable to the warrants;
- any additional terms of the warrants, including terms, procedures and limitations relating to the exchange and exercise of the warrants; and
- any other information we think is important about the warrants.

Exercise of Warrants

Each warrant will entitle the holder of the warrant to purchase at the exercise price set forth in the applicable prospectus supplement the principal amount of debt securities or shares of preferred stock or common stock being offered. Holders may exercise warrants at any time up to the close of business on the expiration date set forth in the applicable prospectus supplement. After the close of business on the expiration date, unexercised warrants are void. Holders may exercise warrants as set forth in the prospectus supplement relating to the warrants being offered.

Until you exercise your warrants to purchase our debt securities, preferred stock or common stock, you will not have any rights as a holder of our debt securities, preferred stock or common stock, as the case may be, by virtue of your ownership of warrants.

PLAN OF DISTRIBUTION

We may sell the offered securities in and outside the United States (1) through underwriters, brokers or dealers; (2) directly to purchasers, including our affiliates and shareholders; (3) through agents, (4) at prevailing market prices by us directly or through a designated agent, including sales made directly or through the facilities of The Nasdaq Global Market or any other securities exchange or quotation or trading service on which such securities may be listed, quoted or traded at the time of sale or (5) through a combination of any of these methods. The prospectus supplement will include the following information:

- the terms of the offering;
- the names of any underwriters, brokers, dealers or agents;
- the name or names of any managing underwriter or underwriters;
- the purchase price or public offering price of the securities;
- the net proceeds to us from the sale of the securities;
- any delayed delivery arrangements;
- any underwriting discounts, commissions and other items constituting underwriters' compensation;
- any discounts or concessions allowed or reallocated or paid to dealers;
- any commissions paid to agents;
- any securities exchange or market on which the securities may be listed.

Sale Through Underwriters or Dealers

If underwriters are used in the sale, the underwriters will acquire the securities for their own account for resale to the public, either on a firm commitment basis or a best efforts basis. The underwriters may resell the securities from time to time in one or more transactions, including negotiated transactions, at a fixed public offering price or at varying prices determined at the time of sale. Underwriters may offer securities to the public either through underwriting syndicates represented by one or more managing underwriters or directly by one or more firms acting as underwriters. Unless we inform you otherwise in the prospectus supplement, the obligations of the underwriters to purchase the securities will be subject to certain conditions. The underwriters may change from time to time any initial public offering price and any discounts or concessions allowed or reallocated or paid to dealers.

We may also make direct sales through subscription rights distributed to our existing shareholders on a pro rata basis, which may or may not be transferable. In any distribution of subscription rights to our shareholders, if all of the underlying securities are not subscribed for, we may then sell the unsubscribed securities directly to third parties or may engage the services of one or more underwriters, dealers or agents, including standby underwriters, to sell the unsubscribed securities to third parties.

During and after an offering through underwriters, the underwriters may purchase and sell the securities in the open market. These transactions may include overallotment and stabilizing transactions and purchases to cover syndicate short positions created in connection with the offering. The underwriters may also impose a penalty bid, which means that selling concessions allowed to syndicate members or other broker-dealers for the offered securities sold for their account may be reclaimed by the syndicate if the offered securities are repurchased by the syndicate in stabilizing or covering transactions. These activities may stabilize, maintain or otherwise affect the market price of the offered securities, which may be higher than the price that might otherwise prevail in the open market. If commenced, the underwriters may discontinue these activities at any time.

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Some or all of the debt securities that we offer through this prospectus may be new issues of securities with no established trading market. Any underwriters to whom we sell such securities for public offering and sale may make a market in those securities, but they will not be obligated to do so and they may discontinue any market making at any time without notice. Accordingly, we cannot assure you of the liquidity of, or continued trading markets for, any debt securities that we offer.

If dealers are used in the sale of securities, we will sell the securities to them as principals. The dealers may then resell those securities to the public at varying prices determined by the dealers at the time of resale. We will include in the prospectus supplement the names of the dealers and the terms of the transaction.

Direct Sales and Sales through Agents

We may sell the securities directly. In that case, no underwriters or agents would be involved. We may also sell the securities through agents designated from time to time. In the prospectus supplement, we will name any agent involved in the offer or sale of the offered securities, and we will describe any commissions payable to the agent. Unless we inform you otherwise in the prospectus supplement, any agent will agree to use its reasonable best efforts to solicit purchases for the period of its appointment.

We may sell the securities directly to institutional investors or others who may be deemed to be underwriters within the meaning of the Securities Act with respect to any sale of those securities. We will describe the terms of any such sales in the prospectus supplement.

Remarketing Arrangements

Offered securities may also be offered and sold, if so indicated in the applicable prospectus supplement, in connection with a remarketing upon their purchase, in accordance with a redemption or repayment pursuant to their terms, or otherwise, by one or more remarketing firms, acting as principals for their own accounts or as agents for us. Any remarketing firm will be identified and the terms of its agreements, if any, with us and its compensation will be described in the applicable prospectus supplement. Remarketing firms may be deemed to be underwriters, as that term is defined in the Securities Act, in connection with the securities remarketed.

Delayed Delivery Contracts

If we so indicate in the prospectus supplement, we may authorize agents, underwriters or dealers to solicit offers from certain types of institutions to purchase debt securities from us at the public offering price under delayed delivery contracts. These contracts would provide for payment and delivery on a specified date in the future. The contracts would be subject only to those conditions described in the prospectus supplement. The prospectus supplement will describe the commission payable for solicitation of those contracts.

General Information

We may have agreements with the agents, dealers, underwriters and remarketing firms to indemnify them against certain civil liabilities, including liabilities under the Securities Act, or to contribute with respect to payments that the agents, dealers, underwriters or remarketing firms may be required to make.

Agents, dealers, underwriters and remarketing firms may be customers of, engage in transactions with or perform services for us in the ordinary course of their businesses.

LEGAL MATTERS

Various legal matters, including the validity of the securities offered hereby, will be passed on for us by Vinson & Elkins L.L.P., Houston, Texas.

EXPERTS

The consolidated financial statements of Mitcham Industries, Inc. appearing in Mitcham Industries, Inc.'s Annual Report (Form 10-K) for the year ended January 31, 2012 and the effectiveness of our internal control over financial reporting included in the Form 10-K have been audited by Hein & Associates LLP, independent registered public accounting firm, as set forth in their reports thereon, included therein, and incorporated herein by reference. Such consolidated financial statements are incorporated herein by reference in reliance upon such report given on the authority of such firm as experts in accounting and auditing.

WHERE YOU CAN FIND MORE INFORMATION

This prospectus, including any documents incorporated herein by reference, constitutes a part of a registration statement on Form S-3 that we filed with the SEC under the Securities Act. This prospectus does not contain all the information set forth in the registration statement. You should refer to the registration statement and its related exhibits and schedules, and the documents incorporated herein by reference, for further information about our company and the securities offered in this prospectus. Statements contained in this prospectus concerning the provisions of any document are not necessarily complete and, in each instance, reference is made to the copy of that document filed as an exhibit to the registration statement or otherwise filed with the SEC, and each such statement is qualified by this reference. The registration statement and its exhibits and schedules, and the documents incorporated herein by reference, are on file at the offices of the SEC and may be inspected without charge.

We file annual, quarterly, and current reports, proxy statements and other information with the SEC. You can read and copy any materials we file with the SEC at the SEC's Public Reference Room at 100 F Street, N.E., Washington, D.C. 20549. You can obtain information about the operation of the Public Reference Room by calling the SEC at 1-800-SEC-0330. The SEC also maintains a website that contains information we file electronically with the SEC, which you can access over the Internet at <http://www.sec.gov>.

Our web page is located at <http://mitchamindustries.com>. Information on our website or any other website is not incorporated by reference in this prospectus and does not constitute a part of this prospectus.

INCORPORATION OF CERTAIN DOCUMENTS BY REFERENCE

We are incorporating by reference in this prospectus information we file with the SEC, which means that we are disclosing important information to you by referring you to those documents. The information we incorporate by reference is an important part of this prospectus, and later information that we file with the SEC automatically will update and supersede this information. We incorporate by reference the documents listed below and any future filings we make with the SEC under Sections 13(a), 13(c), 14 or 15(d) of the Securities Exchange Act of 1934 (the "Exchange Act"), excluding any information in those documents that is deemed by the rules of the SEC to be furnished not filed, until all offerings under this registration statement are completed:

- our Annual Report on Form 10-K for the year ended January 31, 2012, including information specifically incorporated by reference from our Proxy Statement for our Annual Meeting of Shareholders, and
- the description of our common stock contained in our registration statement on Form 8-A filed with the SEC on November 18, 1994 pursuant to Section 12 of the Securities Exchange Act of 1934, including any amendments and reports filed for the purpose of updating such description.

These reports contain important information about us, our financial condition and our results of operations.

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

You may request a copy of these filings, which we will provide to you at no cost, by writing or telephoning us at the following address and telephone number:

Mitcham Industries, Inc.
8141 SH 75 South
P.O. Box 1175
Huntsville, Texas 7734
(936) 291-2277
Attention: Chief Financial Officer

PART II
INFORMATION NOT REQUIRED IN THE PROSPECTUS

Item 14. Other Expenses of Issuance and Distribution.

The following table sets forth the estimated expenses in connection with the distribution of the securities covered by the registration statement of which this prospectus is a part. We will bear all of these expenses.

Registration fee under the Securities Act	\$10,153
Legal fees and expenses*	\$15,000
Printing expenses*	\$10,000
Accounting fees and expenses*	\$ 5,000
Miscellaneous*	\$ 847
Total	<u>\$41,000</u>

* Estimated solely for the purpose of this Item. Actual expenses may be more or less.

Item 15. Indemnification of Officers and Directors.

Under the Company's Amended and Restated Articles of Incorporation, the Company is required to indemnify its directors, officers, employees and agents and maintain liability insurance for those persons in accordance with the provisions of Chapter 8 of the Texas Business Organizations Code. Section 8.101 of the Texas Business Organizations Code provides that a corporation may indemnify a governing person, or delegate, who was, is or is threatened to be made a named defendant or respondent in a proceeding if it is determined that the person: (i) conducted himself in good faith; (ii) reasonably believed that (a) in the case of conduct in his official capacity that his conduct was in the corporation's best interest and (b) in all other cases, that his conduct was at least not opposed to the corporation's best interest; and (iii) in the case of any criminal proceeding, had no reasonable cause to believe his conduct was unlawful. However, if the person is found liable to the corporation, or if the person is found liable on the basis that he received an improper personal benefit, indemnification under Texas law is limited to the reimbursement of reasonable expenses actually incurred by the person in connection with the proceedings and does not include a judgment, a penalty, a fine, and an excise or similar tax, and no indemnification will be available if the person is found liable for willful or intentional misconduct, breach of the person's duty of loyalty, or an act or omission not committed in good faith that constitutes a breach of a duty owed by the person to the corporation. Under Texas law, indemnification by the corporation is mandatory if the person is wholly successful on the merits or otherwise, in the defense of the proceeding.

Item 16. Exhibits

The following documents are filed as exhibits to this registration statement, including those exhibits incorporated herein by reference to a prior filing of the registrant under the Securities Act of 1933 or the Securities Exchange Act of 1934, as indicated in parentheses:

<u>Exhibit No.</u>	<u>Description</u>
1.1*	— Form of Underwriting Agreement.
4.1	— Form of Senior Indenture (including Form of Senior Note) (incorporated herein by reference to Exhibit 4.1 to Mitcham Industries, Inc.'s Registration Statement on Form S-3, filed with the SEC on March 18, 2011 (Registration No. 333-172935)).
4.2	— Form of Subordinated Indenture (including Form of Subordinated Note) (incorporated herein by reference to Exhibit 4.2 to Mitcham Industries, Inc.'s Registration Statement on Form S-3, filed with the SEC on March 18, 2011 (Registration No. 333-172935)).
4.3*	— Form of Warrant Agreement, including form of Warrant.

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<u>Exhibit No.</u>	<u>Description</u>
5.1	— Opinion of Vinson & Elkins L.L.P.
12.1	— Computation of Ratio of Earnings to Fixed Charges (incorporated herein by reference to Exhibit 12.1 to Mitcham Industries, Inc.'s Annual Report on Form 10-K, filed with the SEC on April 4, 2011 (File No. 000-25142)).
23.1	— Consent of Hein & Associates LLP.
23.2	— Consent of Vinson & Elkins L.L.P. (included in Exhibit 5.1).
24.1	— Powers of Attorney (included on the signature pages to this registration statement).
25.1**	— Form T-1 Statement of Eligibility under Trust Indenture Act of 1939 of the Trustee (to be filed prior to any issuance of Senior Debt Securities).
25.2**	— Form T-1 Statement of Eligibility under Trust Indenture Act of 1939 of the Trustee (to be filed prior to any issuance of Subordinated Debt Securities).

* To be filed as an Exhibit to a Current Report on Form 8-K or in a post-effective amendment to this registration statement.

** To be filed in accordance with the requirements of the Trust Indenture Act of 1939.

Item 17. Undertakings

A. 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:
 - (a) To include any prospectus required by Section 10(a)(3) of the Securities Act;
 - (b) 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 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 the prospectus filed with the SEC pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than a 20% change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective registration statement; and
 - (c) To include any material information with respect to the plan of distribution not previously disclosed in this registration statement or any material change to the information in this registration statement;

provided, however, that paragraphs A(1)(a), A(1)(b) and A(1)(c) above 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 15(d) of the Exchange Act that are incorporated by reference in this registration statement, or is contained in a form of prospectus filed pursuant to Rule 424(b) that is part of this registration statement.

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

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- (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.
- (4) That, for the purpose of determining liability under the Securities Act to any purchaser:
 - (a) Each prospectus filed by the registrant pursuant to Rule 424(b)(3) shall be deemed to be part of the registration statement as of the date the filed prospectus was deemed part of and included in the registration statement; and
 - (b) Each prospectus required to be filed pursuant to Rule 424(b)(2), (b)(5), or (b)(7) as part of a registration statement in reliance on Rule 430B relating to an offering made pursuant to Rule 415(a)(1)(i), (vii), or (x) for the purpose of providing the information required by Section 10(a) of the Securities Act shall be deemed to be part of and included in the registration statement as of the earlier of the date such form of prospectus is first used after effectiveness or the date of the first contract of sale of securities in the offering described in the prospectus. As provided in Rule 430B, for liability purposes of the issuer and any person that is at that date an underwriter, such date shall be deemed to be a new effective date of the registration statement relating to the securities in the registration statement to which that prospectus relates, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof. Provided, however, that no statement made in a registration statement or prospectus that is part of the registration statement or made in a document incorporated or deemed incorporated by reference into the registration statement or prospectus that is part of the registration statement will, as to a purchaser with a time of contract of sale prior to such effective date, supersede or modify any statement that was made in the registration statement or prospectus that was part of the registration statement or made in any such document immediately prior to such effective date.
- (5) That, for the purpose of determining liability of the registrant under the Securities Act to any purchaser in the initial distribution of the securities, the undersigned registrant undertakes that in a primary offering of securities of the undersigned registrant pursuant to this registration statement, regardless of the underwriting method used to sell the securities to the purchaser, if the securities are offered or sold to such purchaser by means of any of the following communications, the undersigned registrant will be a seller to the purchaser and will be considered to offer or sell such securities to such purchaser:
 - (a) Any preliminary prospectus or prospectus of the undersigned registrant relating to the offering required to be filed pursuant to Rule 424;
 - (b) Any free writing prospectus relating to the offering prepared by or on behalf of the undersigned registrant or used or referred to by the undersigned registrant;
 - (c) The portion of any other free writing prospectus relating to the offering containing material information about the undersigned registrant or its securities provided by or on behalf of the undersigned registrant; and
 - (d) Any other communication that is an offer in the offering made by the undersigned registrant to the purchaser.
- B. The undersigned registrant hereby undertakes that, for purposes of determining any liability under the Securities Act, each filing of its annual report pursuant to Section 13(a) or Section 15(d) of the Exchange Act (and, where applicable, each filing of an employee benefit plan's annual report pursuant to Section 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 herein, and the offering of the securities at that time shall be deemed to be the initial bona fide offering thereof.
- C. 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 provisions described in Item 15 above,

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or otherwise, the registrant has been advised that in the opinion of the SEC that indemnification is against public policy as expressed in the Securities Act and is, therefore, unenforceable. In the event that a claim for indemnification against any liability (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 action, suit or proceeding) is asserted by a 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 indemnification by it is against public policy as expressed in the Securities Act and will be governed by the final adjudication of the issue.

- D. Each undersigned registrant hereby undertakes to file an application for the purpose of determining the eligibility of the trustee under each of its indentures to act under subsection (a) of Section 310 of the Trust Indenture Act of 1939, as amended (the "Act") in accordance with the rules and regulations prescribed by the SEC under section 305(b)(2) of the Act.

EXHIBIT INDEX

<u>Exhibit No.</u>	<u>Description</u>
1.1*	— Form of Underwriting Agreement.
4.1	— Form of Senior Indenture (including Form of Senior Note) (incorporated herein by reference to Exhibit 4.1 to Mitcham Industries, Inc.'s Registration Statement on Form S-3, filed with the SEC on March 18, 2011 (Registration No. 333-172935)).
4.2	— Form of Subordinated Indenture (including Form of Subordinated Note) (incorporated herein by reference to Exhibit 4.2 to Mitcham Industries, Inc.'s Registration Statement on Form S-3, filed with the SEC on March 18, 2011 (Registration No. 333-172935)).
4.3*	— Form of Warrant Agreement, including form of Warrant.
5.1	— Opinion of Vinson & Elkins L.L.P.
12.1	— Computation of Ratio of Earnings to Fixed Charges (incorporated herein by reference to Exhibit 12.1 to Mitcham Industries, Inc.'s Annual Report on Form 10-K, filed with the SEC on April 4, 2011 (File No. 000-25142)).
23.1	— Consent of Hein & Associates LLP.
23.2	— Consent of Vinson & Elkins L.L.P. (included in Exhibit 5.1).
24.1	— Powers of Attorney (included on the signature pages to this registration statement).
25.1**	— Form T-1 Statement of Eligibility under Trust Indenture Act of 1939 of the Trustee (to be filed prior to any issuance of Senior Debt Securities).
25.2**	— Form T-1 Statement of Eligibility under Trust Indenture Act of 1939 of the Trustee (to be filed prior to any issuance of Subordinated Debt Securities).

* To be filed as an Exhibit to a Current Report on Form 8-K or in a post-effective amendment to this registration statement.

** To be filed in accordance with the requirements of the Trust Indenture Act of 1939.

Vinson & Elkins

April 10, 2012

Mitcham Industries, Inc.
8141 SH 75 South, P.O. Box 1175
Huntsville, Texas 77342

Re: Registration Statement on Form S-3 (the "**Registration Statement**")

Ladies and Gentlemen:

We have acted as counsel for Mitcham Industries, Inc., a Texas corporation (the "**Company**"), with respect to certain legal matters in connection with the preparation of a registration statement on Form S-3 filed on the date hereof and to which this opinion is an exhibit (the "**Registration Statement**") with the Securities and Exchange Commission (the "**Commission**") relating to the offer and sale by the Company from time to time of:

(1) debt securities, which may be senior or subordinated, in one or more series, consisting of notes, debentures or other evidences of indebtedness (the "**Debt Securities**"), which may be guaranteed (the "**Guarantees**") by certain of the Company's subsidiaries (the "**Subsidiary Guarantors**");

(2) shares of the Company's common stock, par value \$0.01 per share (the "**Common Stock**");

(3) shares of the Company's preferred stock, in one or more series, with such terms and rights as determined by the Company's board of directors (the "**Board**") from time to time (the "**Preferred Stock**"); and

(4) warrants to for the purchase of Common Stock (the "**Warrants**");

all of which may be issued and sold from time to time pursuant to Rule 415 under the Securities Act of 1933, as amended (the "**Securities Act**") at an aggregate initial offering price not to exceed \$150,000,000.

The Debt Securities, Common Stock, Preferred Stock and Warrants are collectively referred to herein as the "**Securities**." We have also participated in the preparation of the Prospectus (the "**Prospectus**") contained in the Registration Statement. The Securities will be offered in amounts, at prices and on terms to be determined in light of market conditions at the time of sale and to be set forth in supplements (each a "**Prospectus Supplement**") to the Prospectus contained in the Registration Statement.

We have examined originals or copies, certified or otherwise identified to our satisfaction, of (i) the Amended and Restated Articles of Incorporation and the Third Amended and Restated Bylaws of the Company, (ii) the Registration Statement, (iii) the form of Senior Indenture (the "**Senior Indenture**"), (iv) the form of Subordinated Indenture (the "**Subordinated Indenture**" and, together with the Senior Indenture, the "**Indentures**"), (v) resolutions of the Board and (vi) such other certificates, statutes and other instruments and documents as we considered appropriate for purposes of the opinions hereafter expressed. In addition, we have reviewed certain certificates of officers of the Company and of public officials, we have relied on such certificates with respect to certain factual matters that we have not independently established and we reviewed such questions of law as we considered appropriate.

In connection with rendering the opinions set forth below, we have assumed that:

(i) all information contained in all documents reviewed by us is true and correct;

(ii) all signatures on all documents examined by us are genuine;

(iii) all documents submitted to us as originals are authentic and all documents submitted to us as copies conform to the originals of those documents;

(iv) the Registration Statement, and any amendments thereto (including post-effective amendments), will have become effective;

(v) a Prospectus Supplement will have been prepared and filed with the Commission describing the Securities offered thereby and will comply with applicable securities laws;

(vi) all Securities will be issued and sold in compliance with applicable federal and state securities laws and in the manner specified in the Registration Statement and the applicable Prospectus Supplement;

(vii) the Indentures relating to the Debt Securities and the Warrant Agreement relating to the Warrants will be duly authorized, executed and delivered by the parties thereto;

(viii) the form and terms of any Securities, the issuance, sale and delivery thereof by the Company and any Subsidiary Guarantors, as applicable, and the incurrence and performance of their obligations thereunder or in respect thereof in accordance with the terms thereof, will be in full compliance with, and will not violate, the formation documents and agreements of the Company or any Subsidiary Guarantor, as applicable, or any applicable law, rule, regulation, order, judgment, decree, award or agreement binding upon them, or to which the issuance, sale and delivery of such Securities, or the incurrence or performance of such obligations, may be subject to, or violate any applicable public policy, or be subject to any defense in law or equity;

(ix) to the extent any Debt Securities are guaranteed by Subsidiary Guarantors, the Company will have filed a post-effective amendment to the Registration Statement to add any Subsidiary Guarantors as co-registrants;

(x) each person signing the documents we examined has the legal capacity and authority to do so;

(xi) at the time of any offering or sale of any shares of Common Stock and/or Preferred Stock, that the Company shall have such number of shares of Common Stock and/or Preferred Stock, as set forth in such offering or sale, authorized or created and available for issuance;

(xii) a definitive purchase, underwriting or similar agreement with respect to any Securities offered will have been duly authorized and validly executed and delivered by the Company and the other parties thereto; and

(xiii) any Securities issuable upon conversion, exchange or exercise of any Debt Securities or Preferred Stock being offered will have been duly authorized, created and, if appropriate, reserved for issuance upon such conversion, exchange or exercise.

Based on the foregoing, and subject to the assumptions, qualifications, limitations, and exceptions set forth herein, we are of the opinion that:

1. When (a) the applicable Indenture relating either to senior Debt Securities or subordinated Debt Securities and, if applicable, any related guarantees have been duly qualified under the Trust Indenture Act of 1939, as amended, (b) the Board (or a committee thereof) and the Subsidiary Guarantors, as applicable, have taken all necessary corporate or comparable action to approve the issuance and terms of any such Debt Securities and, if applicable, Guarantees, (c) the terms of such Debt Securities and, if applicable, Guarantees and of their issuance and sale have been duly established in conformity with the applicable Indenture so as not to violate any applicable law or result in a default under or breach of any agreement or instrument binding upon the Company or the Subsidiary Guarantors, as applicable, and so as to comply with any requirements or restrictions imposed by any court or governmental body having jurisdiction over the Company or the Subsidiary Guarantors, as applicable, (d) any shares of Common Stock issuable upon the conversion of such Debt Securities, if applicable, have been duly and validly authorized for issuance and (e) such Debt Securities (which may include the related Guarantees) have been duly executed and authenticated in accordance with the applicable Indenture and issued and sold as contemplated in the Registration Statement and upon payment of the consideration for such Debt Securities as provided for in the applicable definitive purchase, underwriting or similar agreement, such Debt Securities and, if applicable, Guarantees will be legally issued and such Debt Securities and, if applicable, Guarantees will constitute valid and legally binding obligations of the Company and the Subsidiary Guarantors, respectively, enforceable against the Company and the Subsidiary Guarantors in accordance with their terms, except as such enforcement is subject to any applicable bankruptcy, insolvency (including, without limitation, all laws relating to fraudulent transfers), reorganization, moratorium and similar laws relating to or affecting creditors' rights generally and to general equitable principles (regardless of whether enforcement is sought in a proceeding in equity or at law);

2. With respect to shares of the Common Stock offered by the Company, when (i) the Board has taken all necessary corporate action to approve the issuance and terms of the offering thereof and related matters; and (ii) certificates representing the shares of Common Stock have been duly executed, countersigned, registered and delivered in accordance with the applicable definitive purchase, underwriting or similar agreement approved by the Board, then upon payment of the consideration therefor (not less than the par value of the Common Stock) provided for therein, such Common Stock will be validly issued, fully paid and non-assessable;

3. With respect to shares of any series of Preferred Stock, when (i) the Board has taken all necessary corporate action to approve the issuance and terms of the shares of the series, the terms of the offering thereof and related matters, including the adoption of a resolution establishing and designating the series and fixing and determining the preferences, limitations and relative rights thereof and the filing of a statement with respect to the series with the Secretary of State of the State of Texas; and (ii) certificates representing the shares of the series of Preferred Stock have been duly executed, countersigned, registered and delivered in accordance with the applicable definitive purchase, underwriting or similar agreement approved by the Board, then upon payment of the consideration therefor (not less than the par value of the Preferred Stock) provided for therein the shares of the series of Preferred Stock will be validly issued, fully paid and non-assessable; and

4. With respect to shares of the Warrants offered by the Company, when (i) the Board has taken all necessary corporate action to approve the issuance and terms of the warrants, the terms of the offering thereof and related matters; and (ii) when the terms of any Warrants and of their issuance and sale have been duly established in conformity with the applicable Warrant Agreement so as not to violate any applicable law or result in a default under or breach of any agreement or instrument binding upon the Company and so as to comply with any requirements or restrictions imposed by any court or governmental body having jurisdiction over the Company, and the Warrants have been duly executed and authenticated in accordance with the applicable Warrant Agreement and issued and sold as contemplated in the Registration Statement, the Warrants will constitute valid and legally binding obligations of the Company, subject to bankruptcy, insolvency (including, without limitation, all laws relating to fraudulent transfers), reorganization, moratorium and similar laws relating to or affecting creditors' rights generally and to general equitable principles (regardless of whether enforcement is sought in a proceeding in equity or at law).

We express no opinions concerning (a) the validity or enforceability of any provisions contained in the Indentures that purport to waive or not give effect to rights to notices, defenses, subrogation or other rights or benefits that cannot be effectively waived under applicable law; (b) the enforceability of indemnification provisions to the extent they purport to relate to liabilities resulting from or based upon negligence or any violation of federal or state securities or blue sky laws or (c) the validity or enforceability of provisions that limit the obligations of a Subsidiary Guarantor based upon the potential enforceability, invalidity or voidability of a guarantee under any applicable law, including without limitation, any state or federal fraudulent transfer or fraudulent conveyance laws.

The foregoing opinions are limited to the federal laws of the United States, the laws of State of Texas and the laws of the State of New York. For purposes of this opinion, we assume that the Securities will be issued in compliance with all applicable state securities or blue sky laws.

We express no opinion as to the effect of the laws of any other jurisdiction, domestic or foreign, or to any matter other than as expressly set forth above, and no opinion on any other matter may be inferred or implied herefrom. We undertake no, and hereby disclaim any, obligation to advise you of any change in any matter set forth herein after the effective date of the Registration Statement.

We hereby consent to the filing of this opinion as an exhibit to the Registration Statement and to the use of our name in the Prospectus forming a part of the Registration Statement under the caption "Legal Matters." In giving this consent, we do not admit that we are within the category of persons whose consent is required under Section 7 of the Securities Act.

Very truly yours,

/s/ Vinson & Elkins L.L.P.
Vinson & Elkins L.L.P.

Consent of Independent Registered Public Accounting Firm

We consent to the incorporation by reference in this Registration Statement on Form S-3 of Mitcham Industries, Inc. of our reports dated April 4, 2012, relating to our audits of the consolidated financial statements for each of the three years in the period ended January 31, 2012, and our audit of the effectiveness of internal controls over financial reporting as of January 31, 2012, which appear in the Annual Report on Form 10-K of Mitcham Industries, Inc. for the year ended January 31, 2012.

We also consent to the reference to our firm under the caption "Experts" in the Prospectus, which is part of this Registration Statement.

/s/ Hein & Associates LLP
Hein & Associates LLP

Houston, Texas
April 10, 2012