

MICROMET, INC.  
Form S-3MEF  
July 30, 2009

As filed with the Securities and Exchange Commission on July 30, 2009  
REGISTRATION NO. 333-

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

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

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MICROMET, INC.

(Exact name of registrant as specified in its charter)

DELAWARE  
(State or other jurisdiction of  
incorporation or organization)

52-2243564  
(I.R.S. Employer Identification No.)

6707 Democracy Blvd., Suite 505  
Bethesda, Maryland 20817  
(240) 752-1420  
(Address, including zip code, and telephone number, including area code of registrant's principal executive offices)

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Barclay A. Phillips  
Senior Vice President and Chief Financial Officer  
Micromet, Inc.  
6707 Democracy Blvd., Suite 505  
Bethesda, Maryland 20817  
(240) 752-1420  
(Name, address, including zip code, and telephone number, including area code, of agent for service)

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Copies to:

Matthias Alder, Esq.  
Senior Vice President, General Counsel and  
Corporate Secretary  
Micromet, Inc.  
6707 Democracy Blvd., Suite 505  
Bethesda, Maryland 20817  
(240) 752-1420

Christian E. Plaza, Esq.  
Darren K. DeStefano, Esq.  
Brian F. Leaf, Esq.  
Cooley Godward Kronish LLP  
One Freedom Square, Reston Town Center  
11951 Freedom Drive  
Reston, Virginia 20190-5656  
(703) 456-8000

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Approximate date of commencement of proposed sale to public: From time to time after the effective date of this Registration Statement.

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

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

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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.  File No. 333-160130

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.

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.

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(1)	Amount to be Registered(3)	Amount of Registration Fee(4)
Common Stock, \$0.00004 par value per share (2)	\$500,000.00	\$27.90

(1) Calculated in accordance with Rule 457(o) under the Securities Act of 1933, as amended. This registration statement registers an indeterminate number of shares of common stock that the Registrant as may sell from time to time.

(2) Includes associated Series A Junior Participating Preferred Stock Purchase Rights.

(3) The \$500,000.00 aggregate amount being registered is in addition to the \$80,000,000.00 aggregate amount originally registered, all of which remains available for issuance, under the Registrant's Registration Statement on Form S-3 (File No. 333-160130).

(4) This entire amount is being paid herewith.

This Registration Statement shall become effective upon filing with the Commission in accordance with Rule 462(b) under the Securities Act.

EXPLANATORY NOTE

This Registration Statement relates to the Registrant's prior registration statement on Form S-3 (File No. 333-160130) which was declared effective by the Securities and Exchange Commission on July 2, 2009 (the "Prior Registration Statement"), and is being filed pursuant to Rule 462(b) and General Instruction IV to Form S-3, both as promulgated under the Securities Act of 1933, as amended, for the sole purpose of increasing the dollar amount of securities registered under the Prior Registration Statement by \$500,000. The contents of the Prior Registration Statement, including the exhibits thereto and each of the documents incorporated by reference therein, are incorporated herein by reference in their entirety.

The required opinions and consents are listed on an Exhibit Index attached hereto and filed herewith or incorporated by reference herein.

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SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-3 and has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Bethesda, State of Maryland, on July 30, 2009.

MICROMET, INC.

By: */s/ Barclay A. Phillips*  
 Barclay A. Phillips  
 Senior Vice President and Chief  
 Financial Officer

Pursuant to the requirements of the Securities Act of 1933, this registration statement has been signed by the following persons in the capacities and on the dates indicated.

Signature	Title	Date
* <hr/>	Chairman of the Board of Directors and Director	July 30, 2009
David F. Hale		
* <hr/>	President, Chief Executive Officer and Director (Principal Executive Officer)	July 30, 2009
Christian Itin		
<i>/s/ Barclay A. Phillips</i> <hr/>	Senior Vice President and Chief Financial Officer (Principal Financial Officer and Principal Accounting Officer)	July 30, 2009
Barclay A. Phillips		
* <hr/>	Director	July 30, 2009
Jerry C. Benjamin		
* <hr/>	Director	July 30, 2009
John E. Berriman		
* <hr/>	Director	July 30, 2009

Michael G. Carter

Director

July 30, 2009

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Peter Johann

Director

July 30, 2009

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Joseph P. Slattery

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Director

July 30, 2009

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Otello Stampacchia

Director

July 30, 2009

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Kapil Dhingra

\* By:/s/ Barclay A. Phillips  
Barclay A. Phillips  
Attorney-in-fact

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EXHIBIT INDEX

Exhibit No.	Description
5.1	Opinion of Cooley Godward Kronish LLP
23.1	Consent of Ernst & Young LLP, Independent Registered Public Accounting Firm
23.2	Consent of Ernst & Young GmbH WPG formerly known as Ernst & Young AG WPG and Ernst & Young Deutsche Allgemeine Treuhand AG WPG, Independent Registered Public Accounting Firm
23.3	Consent of Cooley Godward Kronish LLP (included in Exhibit 5.1)
24.1	Power of Attorney (1)

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(1) Previously filed on the signature page to Registrant's registration statement on Form S-3 (File No. 333-160130), filed with the Commission on June 19, 2009 and incorporated herein by reference.

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