

As filed with the Securities and Exchange Commission on March 2, 2006.  
Registration No. 333-33074

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SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

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POST-EFFECTIVE AMENDMENT NO. 1

ON

FORM S-8

Registration Statement Under  
The Securities Act of 1933

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THERMO ELECTRON CORPORATION

(Exact name of registrant as specified in its charter)

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DELAWARE

(State or other jurisdiction of  
incorporation or organization)

04-2209186

(I.R.S. Employer  
Identification Number)

81 Wyman Street

Waltham, Massachusetts 02454-9046

(Address of Principal Executive Offices) (Zip Code)

THERMO ELECTRON CORPORATION – THE RANDERS KILLAM GROUP INC.

NONQUALIFIED STOCK OPTION PLAN

THERMO TERRATECH INC. – THE RANDERS KILLAM GROUP INC. NONQUALIFIED

STOCK OPTION PLAN

THERMO TERRATECH INC. DIRECTORS STOCK OPTION PLAN (RANDERS KILLAM

GROUP SHARES)

THE RANDERS KILLAM GROUP INC. EQUITY INCENTIVE PLAN

THE RANDERS KILLAM GROUP INC. 1988 INCENTIVE STOCK OPTION PLAN

(Full Title of the Plan)

Seth H. Hoogasian, Secretary

Thermo Electron Corporation

81 Wyman Street

Waltham, Massachusetts 02454-9046

(781) 622-1000

(Telephone Number, Including Area Code, of Agent For Service)

## Deregistration of Securities

This Post-Effective Amendment No. 1 on Form S-8 to the Registration Statement on Form S-8 (Registration No. 333-33074) is being filed by the Registrant to remove from registration any of the securities that remain unsold thereunder as of the date of filing of this post-effective amendment. The securities were previously registered for sale under the Thermo Electron Corporation – The Randers Killam Group Inc. Nonqualified Stock Option Plan, the Thermo Terratech Inc. – The Randers Killam Group Inc. Nonqualified Stock Option Plan, the Thermo Terratech Inc. Directors Stock Option Plan (Randers Killam Group shares), The Randers Killam Group Inc. Equity Incentive Plan, and The Randers Killam Group Inc. 1988 Incentive Stock Option Plan (collectively, the “Plans”). The deregistered securities represent shares subject to options granted under the Plans that expired, were canceled or terminated without having been exercised. As such, the Registrant hereby removes such securities from registration and the registration is hereby terminated.

## SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, Thermo Electron certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-8 and has duly caused this Post-Effective Amendment on Form S-8 to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Waltham, Commonwealth of Massachusetts, on this 28<sup>th</sup> day of February, 2006.

### THERMO ELECTRON CORPORATION

By: /s/ Marijn E. Dekkers  
Marijn E. Dekkers  
Its: President and Chief Executive Officer

Pursuant to the requirements of the Securities Act of 1933, this Post-Effective Amendment on Form S-8 has been signed by the following persons in the capacities and on the dates indicated.

<u>Signature</u>	<u>Title</u>	<u>Date</u>
<u>/s/ Marijn E. Dekkers</u> Marijn E. Dekkers	President, Chief Executive Officer and Director (Principal Executive Officer)	February 28, 2006
<u>/s/ Jim P. Manzi</u> Jim P. Manzi	Chairman of the Board and Director	February 28, 2006
<u>/s/ Peter M. Wilver</u> Peter M. Wilver	Vice President and Chief Financial Officer (Principal Financial Officer)	February 28, 2006
<u>/s/ Peter E. Hornstra</u> Peter E. Hornstra	Corporate Controller and Chief Accounting Officer (Principal Accounting Officer)	February 28, 2006
<u>/s/ John L. LaMattina</u> John L. LaMattina	Director	February 28, 2006
<u>/s/ Peter J. Manning</u> Peter J. Manning	Director	February 28, 2006
<u>/s/ Robert A. McCabe</u> Robert A. McCabe	Director	February 28, 2006
<u>/s/ Robert W. O'Leary</u> Robert W. O'Leary	Director	February 28, 2006

/s/ Michael E. Porter

Michael E. Porter

Director

February 28, 2006

/s/ Elaine S. Ullian

Elaine S. Ullian

Director

February 28, 2006