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----- (8) Shared Dispositive Power - ----- (9)  
Aggregate - ----- (10) Check Box if the Aggregate  
Amount in Row (9) Excludes Certain Shares\* ----- (11)  
Percent of Class Represented by Amount in Row (9) 0.00%

----- (12) Type of Reporting Person\* FI  
----- CUSIP No. 12709P103 -----  
----- (1) Names of Reporting Persons. I.R.S.  
Identification Nos. of above persons (entities only). BARCLAYS GLOBAL INVESTORS CANADA LIMITED  
----- (2) Check the appropriate box if a member of a  
Group\* (a) // (b) /X/ ----- (3) SEC Use Only  
----- (4) Citizenship or Place of Organization Canada  
----- Number of Shares (5) Sole Voting Power  
Beneficially Owned by Each Reporting ----- Person With (6) Shared Voting Power -  
----- (7) Sole Dispositive Power - ----- (8) Shared Dispositive Power -  
----- (9) Aggregate -  
----- (10) Check Box if the Aggregate Amount in Row (9)  
Excludes Certain Shares\* ----- (11) Percent of Class  
Represented by Amount in Row (9) 0.00% ----- (12)  
Type of Reporting Person\* FI ----- CUSIP No.  
12709P103 ----- (1) Names of Reporting Persons.  
I.R.S. Identification Nos. of above persons (entities only). BARCLAYS GLOBAL INVESTORS AUSTRALIA  
LIMITED ----- (2) Check the appropriate box if a  
member of a Group\* (a) // (b) /X/ ----- (3) SEC Use Only  
----- (4) Citizenship or Place of Organization Australia  
----- Number of Shares (5) Sole Voting Power  
Beneficially Owned by Each Reporting ----- Person With (6) Shared Voting Power -  
----- (7) Sole Dispositive Power - ----- (8) Shared Dispositive Power -  
----- (9) Aggregate -  
----- (10) Check Box if the Aggregate Amount in Row (9)  
Excludes Certain Shares\* ----- (11) Percent of Class  
Represented by Amount in Row (9) 0.00% ----- (12)  
Type of Reporting Person\* FI ----- CUSIP No.  
12709P103 ----- (1) Names of Reporting Persons.  
I.R.S. Identification Nos. of above persons (entities only). BARCLAYS GLOBAL INVESTORS (DEUTSCHLAND)  
AG ----- (2) Check the appropriate box if a member of a  
Group\* (a) // (b) /X/ ----- (3) SEC Use Only  
----- (4) Citizenship or Place of Organization Germany  
----- Number of Shares (5) Sole Voting Power  
Beneficially Owned by Each Reporting ----- Person With (6) Shared Voting Power -  
----- (7) Sole Dispositive Power - ----- (8) Shared Dispositive Power -  
----- (9) Aggregate -  
----- (10) Check Box if the Aggregate Amount in Row (9)  
Excludes Certain Shares\* ----- (11) Percent of Class  
Represented by Amount in Row (9) 0.00% ----- (12)  
Type of Reporting Person\* FI ----- ITEM 1(A). NAME  
OF ISSUER CABOT MICROELECTRONICS CORP  
----- ITEM 1(B). ADDRESS OF ISSUER'S PRINCIPAL  
EXECUTIVE OFFICES 870 N COMMONS DR -----

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ITEM 2(A). NAME OF PERSON(S) FILING BARCLAYS GLOBAL INVESTORS, NA  
----- ITEM 2(B). ADDRESS OF PRINCIPAL  
BUSINESS OFFICE OR, IF NONE, RESIDENCE 400 Howard Street San Francisco, CA 94105  
----- ITEM 2(C). CITIZENSHIP U.S.A  
----- ITEM 2(D). TITLE OF CLASS OF SECURITIES  
Common Stock ----- ITEM 2(E). CUSIP NUMBER  
12709P103 -----  
ITEM 3. IF THIS STATEMENT IS  
FILED PURSUANT TO RULES 13D-1(B), OR 13D-2(B), CHECK WHETHER THE PERSON FILING IS A (a) //  
Broker or Dealer registered under Section 15 of the Act (15 U.S.C. 78o). (b) /X/ Bank as defined in section 3(a) (6) of  
the Act (15 U.S.C. 78c). (c) // Insurance Company as defined in section 3(a) (19) of the Act (15 U.S.C. 78c). (d) //  
Investment Company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8). (e) //  
Investment Adviser in accordance with section 240.13d(b)(1)(ii)(E). (f) // Employee Benefit Plan or endowment fund  
in accordance with section 240.13d-1(b)(1)(ii)(F). (g) // Parent Holding Company or control person in accordance  
with section 240.13d-1(b)(1)(ii)(G). (h) // A savings association as defined in section 3(b) of the Federal Deposit  
Insurance Act (12 U.S.C. 1813). (i) // A church plan that is excluded from the definition of an investment company  
under section 3(c)(14) of the Investment Company Act of 1940 (15U.S.C. 80a-3). (j) // Non-U.S. institution, in  
accordance with section 240.13d-1(b)(1)(ii)(J) (k) // Group, in accordance with section 240.13d-1(b)(1)(ii)(K) ITEM  
1(A). NAME OF ISSUER CABOT MICROELECTRONICS CORP

----- ITEM 1(B). ADDRESS OF ISSUER'S PRINCIPAL  
EXECUTIVE OFFICES 870 N COMMONS DR -----

ITEM 2(A). NAME OF PERSON(S) FILING BARCLAYS GLOBAL FUND ADVISORS  
----- ITEM 2(B). ADDRESS OF PRINCIPAL  
BUSINESS OFFICE OR, IF NONE, RESIDENCE 400 Howard Street San Francisco, CA 94105  
----- ITEM 2(C). CITIZENSHIP U.S.A  
----- ITEM 2(D). TITLE OF CLASS OF SECURITIES  
Common Stock ----- ITEM 2(E). CUSIP NUMBER  
12709P103 -----  
ITEM 3. IF THIS STATEMENT IS  
FILED PURSUANT TO RULES 13D-1(B), OR 13D-2(B), CHECK WHETHER THE PERSON FILING IS A (a) //  
Broker or Dealer registered under Section 15 of the Act (15 U.S.C. 78o). (b) // Bank as defined in section 3(a) (6) of  
the Act (15 U.S.C. 78c). (c) // Insurance Company as defined in section 3(a) (19) of the Act (15 U.S.C. 78c). (d) //  
Investment Company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8). (e) /X/  
Investment Adviser in accordance with section 240.13d(b)(1)(ii)(E). (f) // Employee Benefit Plan or endowment fund  
in accordance with section 240.13d-1(b)(1)(ii)(F). (g) // Parent Holding Company or control person in accordance  
with section 240.13d-1(b)(1)(ii)(G). (h) // A savings association as defined in section 3(b) of the Federal Deposit  
Insurance Act (12 U.S.C. 1813). (i) // A church plan that is excluded from the definition of an investment company  
under section 3(c)(14) of the Investment Company Act of 1940 (15U.S.C. 80a-3). (j) // Non-U.S. institution, in  
accordance with section 240.13d-1(b)(1)(ii)(J) (k) // Group, in accordance with section 240.13d-1(b)(1)(ii)(K) ITEM  
1(A). NAME OF ISSUER CABOT MICROELECTRONICS CORP

----- ITEM 1(B). ADDRESS OF ISSUER'S PRINCIPAL  
EXECUTIVE OFFICES 870 N COMMONS DR -----

ITEM 2(A). NAME OF PERSON(S) FILING BARCLAYS GLOBAL INVESTORS, LTD  
----- ITEM 2(B). ADDRESS OF PRINCIPAL  
BUSINESS OFFICE OR, IF NONE, RESIDENCE Murray House 1 Royal Mint Court LONDON, EC3N 4HH  
----- ITEM 2(C). CITIZENSHIP England  
----- ITEM 2(D). TITLE OF CLASS OF SECURITIES  
Common Stock ----- ITEM 2(E). CUSIP NUMBER  
12709P103 -----  
ITEM 3. IF THIS STATEMENT IS  
FILED PURSUANT TO RULES 13D-1(B), OR 13D-2(B), CHECK WHETHER THE PERSON FILING IS A (a) //  
Broker or Dealer registered under Section 15 of the Act (15 U.S.C. 78o). (b) // Bank as defined in section 3(a) (6) of  
the Act (15 U.S.C. 78c). (c) // Insurance Company as defined in section 3(a) (19) of the Act (15 U.S.C. 78c). (d) //  
Investment Company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8). (e) //

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Investment Adviser in accordance with section 240.13d(b)(1)(ii)(E). (f) // Employee Benefit Plan or endowment fund in accordance with section 240.13d-1(b)(1)(ii)(F). (g) // Parent Holding Company or control person in accordance with section 240.13d-1(b)(1)(ii)(G). (h) // A savings association as defined in section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813). (i) // A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15U.S.C. 80a-3). (j) /X/ Non-U.S. institution, in accordance with section 240.13d-1(b)(1)(ii)(J) (k) // Group, in accordance with section 240.13d-1(b)(1)(ii)(K) ITEM 1(A). NAME OF ISSUER CABOT MICROELECTRONICS CORP

----- ITEM 1(B). ADDRESS OF ISSUER'S PRINCIPAL EXECUTIVE OFFICES 870 N COMMONS DR -----

ITEM 2(A). NAME OF PERSON(S) FILING BARCLAYS GLOBAL INVESTORS JAPAN LIMITED

----- ITEM 2(B). ADDRESS OF PRINCIPAL

BUSINESS OFFICE OR, IF NONE, RESIDENCE Ebisu Prime Square Tower 8th Floor 1-1-39 Hiroo Shibuya-Ku Tokyo 150-8402 Japan -----

----- ITEM 2(C). CITIZENSHIP

Japan ----- ITEM 2(D). TITLE OF CLASS OF

SECURITIES Common Stock ----- ITEM 2(E). CUSIP

NUMBER 12709P103 ----- ITEM 3. IF THIS

STATEMENT IS FILED PURSUANT TO RULES 13D-1(B), OR 13D-2(B), CHECK WHETHER THE PERSON

FILING IS A (a) // Broker or Dealer registered under Section 15 of the Act (15 U.S.C. 78o). (b) // Bank as defined in

section 3(a) (6) of the Act (15 U.S.C. 78c). (c) // Insurance Company as defined in section 3(a) (19) of the Act (15

U.S.C. 78c). (d) // Investment Company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C.

80a-8). (e) // Investment Adviser in accordance with section 240.13d(b)(1)(ii)(E). (f) // Employee Benefit Plan or

endowment fund in accordance with section 240.13d-1(b)(1)(ii)(F). (g) // Parent Holding Company or control person

in accordance with section 240.13d-1(b)(1)(ii)(G). (h) // A savings association as defined in section 3(b) of the Federal

Deposit Insurance Act (12 U.S.C. 1813). (i) // A church plan that is excluded from the definition of an investment

company under section 3(c)(14) of the Investment Company Act of 1940 (15U.S.C. 80a-3). (j) /X/ Non-U.S.

institution, in accordance with section 240.13d-1(b)(1)(ii)(J) (k) // Group, in accordance with section

240.13d-1(b)(1)(ii)(K) ITEM 1(A). NAME OF ISSUER CABOT MICROELECTRONICS CORP

----- ITEM 1(B). ADDRESS OF ISSUER'S PRINCIPAL

EXECUTIVE OFFICES 870 N COMMONS DR -----

ITEM 2(A). NAME OF PERSON(S) FILING BARCLAYS GLOBAL INVESTORS CANADA LIMITED

----- ITEM 2(B). ADDRESS OF PRINCIPAL

BUSINESS OFFICE OR, IF NONE, RESIDENCE Brookfield Place 161 Bay Street Suite 2500, PO Box 614 Toronto,

Canada Ontario M5J 2S1 ----- ITEM 2(C).

CITIZENSHIP Canada ----- ITEM 2(D). TITLE OF

CLASS OF SECURITIES Common Stock ----- ITEM

2(E). CUSIP NUMBER 12709P103 ----- ITEM 3. IF

THIS STATEMENT IS FILED PURSUANT TO RULES 13D-1(B), OR 13D-2(B), CHECK WHETHER THE

PERSON FILING IS A (a) // Broker or Dealer registered under Section 15 of the Act (15 U.S.C. 78o). (b) // Bank as

defined in section 3(a) (6) of the Act (15 U.S.C. 78c). (c) // Insurance Company as defined in section 3(a) (19) of the

Act (15 U.S.C. 78c). (d) // Investment Company registered under section 8 of the Investment Company Act of 1940

(15 U.S.C. 80a-8). (e) // Investment Adviser in accordance with section 240.13d(b)(1)(ii)(E). (f) // Employee Benefit

Plan or endowment fund in accordance with section 240.13d-1(b)(1)(ii)(F). (g) // Parent Holding Company or control

person in accordance with section 240.13d-1(b)(1)(ii)(G). (h) // A savings association as defined in section 3(b) of the

Federal Deposit Insurance Act (12 U.S.C. 1813). (i) // A church plan that is excluded from the definition of an

investment company under section 3(c)(14) of the Investment Company Act of 1940 (15U.S.C. 80a-3). (j) /X/

Non-U.S. institution, in accordance with section 240.13d-1(b)(1)(ii)(J) (k) // Group, in accordance with section

240.13d-1(b)(1)(ii)(K) ITEM 1(A). NAME OF ISSUER CABOT MICROELECTRONICS CORP

----- ITEM 1(B). ADDRESS OF ISSUER'S PRINCIPAL

EXECUTIVE OFFICES 870 N COMMONS DR -----

ITEM 2(A). NAME OF PERSON(S) FILING BARCLAYS GLOBAL INVESTORS AUSTRALIA LIMITED

----- ITEM 2(B). ADDRESS OF PRINCIPAL

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BUSINESS OFFICE OR, IF NONE, RESIDENCE Level 43, Grosvenor Place, 225 George Street PO Box N43 Sydney, Australia NSW 1220 ----- ITEM 2(C).  
CITIZENSHIP Australia ----- ITEM 2(D). TITLE OF CLASS OF SECURITIES Common Stock ----- ITEM 2(E). CUSIP NUMBER 12709P103 ----- ITEM 3. IF THIS STATEMENT IS FILED PURSUANT TO RULES 13D-1(B), OR 13D-2(B), CHECK WHETHER THE PERSON FILING IS A (a) // Broker or Dealer registered under Section 15 of the Act (15 U.S.C. 78o). (b) // Bank as defined in section 3(a) (6) of the Act (15 U.S.C. 78c). (c) // Insurance Company as defined in section 3(a) (19) of the Act (15 U.S.C. 78c). (d) // Investment Company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8). (e) // Investment Adviser in accordance with section 240.13d(b)(1)(ii)(E). (f) // Employee Benefit Plan or endowment fund in accordance with section 240.13d-1(b)(1)(ii)(F). (g) // Parent Holding Company or control person in accordance with section 240.13d-1(b)(1)(ii)(G). (h) // A savings association as defined in section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813). (i) // A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15U.S.C. 80a-3). (j) /X/ Non-U.S. institution, in accordance with section 240.13d-1(b)(1)(ii)(J) (k) // Group, in accordance with section 240.13d-1(b)(1)(ii)(K) ITEM 1(A). NAME OF ISSUER CABOT MICROELECTRONICS CORP ----- ITEM 1(B). ADDRESS OF ISSUER'S PRINCIPAL EXECUTIVE OFFICES 870 N COMMONS DR ----- ITEM 2(A). NAME OF PERSON(S) FILING BARCLAYS GLOBAL INVESTORS (DEUTSCHLAND) AG ----- ITEM 2(B). ADDRESS OF PRINCIPAL BUSINESS OFFICE OR, IF NONE, RESIDENCE Apianstrasse 6 D-85774 Unterföhring, Germany ----- ITEM 2(C). CITIZENSHIP Germany ----- ITEM 2(D). TITLE OF CLASS OF SECURITIES Common Stock ----- ITEM 2(E). CUSIP NUMBER 12709P103 ----- ITEM 3. IF THIS STATEMENT IS FILED PURSUANT TO RULES 13D-1(B), OR 13D-2(B), CHECK WHETHER THE PERSON FILING IS A (a) // Broker or Dealer registered under Section 15 of the Act (15 U.S.C. 78o). (b) // Bank as defined in section 3(a) (6) of the Act (15 U.S.C. 78c). (c) // Insurance Company as defined in section 3(a) (19) of the Act (15 U.S.C. 78c). (d) // Investment Company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8). (e) // Investment Adviser in accordance with section 240.13d(b)(1)(ii)(E). (f) // Employee Benefit Plan or endowment fund in accordance with section 240.13d-1(b)(1)(ii)(F). (g) // Parent Holding Company or control person in accordance with section 240.13d-1(b)(1)(ii)(G). (h) // A savings association as defined in section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813). (i) // A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15U.S.C. 80a-3). (j) /X/ Non-U.S. institution, in accordance with section 240.13d-1(b)(1)(ii)(J) (k) // Group, in accordance with section 240.13d-1(b)(1)(ii)(K) ITEM 4. OWNERSHIP Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1. (a) Amount Beneficially Owned: 1552207 ----- (b) Percent of Class: 6.68% ----- (c) Number of shares as to which such person has: (i) sole power to vote or to direct the vote 1217152 ----- (ii) shared power to vote or to direct the vote - ----- (iii) sole power to dispose or to direct the disposition of 1552207 ----- (iv) shared power to dispose or to direct the disposition of - ----- ITEM 5. OWNERSHIP OF FIVE PERCENT OR LESS OF A CLASS If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following. // ITEM 6. OWNERSHIP OF MORE THAN FIVE PERCENT ON BEHALF OF ANOTHER PERSON The shares reported are held by the company in trust accounts for the economic benefit of the beneficiaries of those accounts. See also Items 2(a) above. ITEM 7. IDENTIFICATION AND CLASSIFICATION OF THE SUBSIDIARY WHICH ACQUIRED THE SECURITY BEING REPORTED ON BY THE PARENT HOLDING COMPANY Not applicable ITEM 8. IDENTIFICATION AND CLASSIFICATION OF MEMBERS OF THE GROUP ITEM 9. NOTICE OF DISSOLUTION OF GROUP Not applicable ITEM 10. CERTIFICATION By signing below I certify

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that, to the best of my knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect. By signing below, I further certify that, to the best of my knowledge and belief, the foreign regulatory scheme applicable to each of: Barclays Global Investors Australia Limited, Barclays Global Investors Canada Limited, Barclays Global Investors (Deutschland) AG, Barclays Global Investors Japan Limited and Barclays Global Investors Limited, is substantially comparable to the regulatory scheme applicable to the functionally equivalent U.S. institutions. I also undertake to furnish to the Commission staff, upon request, information that would otherwise be disclosed in a Schedule 13D by such entities. SIGNATURE After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct. February 6, 2009 ----- Date -----  
Signature John McGahan Principal ----- Name/Title