NIERENBERG DAVID Form SC 13D/A July 15, 2005

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

SCHEDULE 13D
Under the Securities Act of 1934
(Amendment No. 1)

BROOKS AUTOMATION, INC. (BRKS)
(Name of Issuer)

Common Stock (Title of Class of Securities)

114340102 (CUSIP Number)

David Nierenberg

The D3 Family Funds

19605 NE 8th Street

Camas, WA 98607

360-604-8600

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(Name, Address and Telephone Number of Person Authorized to Receive Notices and Communications)

July 15, 2005 (Date of Event which Requires Filing of this Statement)

If the filing person has previously filed a statement on Schedule 13G to report the acquisition that is the subject of this Schedule 13D and is filing this schedule because of ss.ss.240.13d-1(e), 240.13d-1(f) or 240.13d-1(g), check the following box:  $| \_ |$ 

1 NAME OF REPORTING PERSON
S.S. OR I.R.S. IDENTIFICATION NOS. OF ABOVE PERSON

The D3 Family Fund, L.P. (David Nierenberg is president of the General Partner, which is Nierenberg Investment Management Company.)

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP\*

(a) |X|
(b) |\_|

3 SEC USE ONLY

4 SOURCE OF FUNDS\* WC

| 5      |                     |       | DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED [EMS 2(d) OR 2(e)                              | I_I             |  |
|--------|---------------------|-------|--|-----------------|--|
| 6      | CITIZENSH           | IP O  | R PLACE OF ORGANIZATION  |                 |  |
|        | USA                 |       |  |                 |  |
|        |                     | 7     | SOLE VOTING POWER  |                 |  |
|        |                     |       | 1,269,556 common shares (2.8%)   |                 |  |
| NU     | JMBER OF            | 8     | SHARED VOTING POWER  |                 |  |
|        | SHARES<br>CFICIALLY |       | 0  |                 |  |
| OM     | NED BY<br>EACH      | 9     | SOLE DISPOSITIVE POWER   |                 |  |
|        | PORTING<br>PERSON   |       | 1,269,556  |                 |  |
|        | WITH                | 10    | SHARED DISPOSITIVE POWER   |                 |  |
|        |                     |       | 0  |                 |  |
| <br>11 | AGGREGATF           | AMO   | <br>JNT BENEFICIALLY OWNED BY EACH REPORTING PERSO   | <br>ON          |  |
|        |                     |       | ces (5.7%)   |                 |  |
| 12     | CHECK BOX           |       | THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERT   | FAIN SHARES*  _ |  |
| 13     | PERCENT C           | F CL  | ASS REPRESENTED BY AMOUNT IN ROW (11)  |                 |  |
|        | 5.7%                |       |  |                 |  |
| 14     | TYPE OF R           | EPOR' | FING PERSON*   |                 |  |
|        | PN                  |       |  |                 |  |
|        |                     |       | *SEE INSTRUCTIONS BEFORE FILLING OUT!  |                 |  |
|        |                     |       | 2  |                 |  |
| 1      |                     |       | TING PERSON  TIDENTIFICATION NOS. OF ABOVE PERSON  |                 |  |
|        |                     |       | Retirement Fund, L.P. (David Nierenberg is prer, which is Nierenberg Investment Management |                 |  |
| 2      |                     |       |  |                 |  |
|        | CEC HCE C           |       |  |                 |  |

| 4    | SOURCE OF FUNDS* WC  |       |   |                   |  |  |
|------|--|-------|---|-------------------|--|--|
| 5    | CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e)  _ |       |   |                   |  |  |
| 6    | CITIZENSH  | IP OF | PLACE OF ORGANIZATION   |                   |  |  |
|      | USA  |       |   |                   |  |  |
|      |  | 7     | SOLE VOTING POWER   |                   |  |  |
|      |  |       | 394,700 common shares (0.87%)   |                   |  |  |
|      |  | 8     | SHARED VOTING POWER   |                   |  |  |
| BENE | HARES<br>FICIALLY  |       | 0   |                   |  |  |
|      | NED BY<br>EACH   |       | SOLE DISPOSITIVE POWER  |                   |  |  |
| P    | PORTING<br>ERSON   |       | 394,700   |                   |  |  |
|      | WITH   | 10    | SHARED DISPOSITIVE POWER  |                   |  |  |
|      |  |       | 0   |                   |  |  |
| 11   | AGGREGATE  | AMOU  | NT BENEFICIALLY OWNED BY EACH REPORTING PERSON  |                   |  |  |
|      | 2,571,156  | shar  | es (5.7%)   |                   |  |  |
| 12   | CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES*  _                  |       |   |                   |  |  |
| 13   | PERCENT O  | F CLA | SS REPRESENTED BY AMOUNT IN ROW (11)  |                   |  |  |
|      | 5.7%<br>   |       |   |                   |  |  |
| 14   | TYPE OF R  | EPORT | ING PERSON*   |                   |  |  |
|      | PN<br>   |       |   |                   |  |  |
|      |  |       | *SEE INSTRUCTIONS BEFORE FILLING OUT!   |                   |  |  |
|      |  |       | 3   |                   |  |  |
| 1    |  |       | ING PERSON IDENTIFICATION NOS. OF ABOVE PERSON  |                   |  |  |
|      |  |       | n's Fund, L.P. (David Nierenberg is president is Nierenberg Investment Management Company.) | of the General    |  |  |
| 2    | CHECK THE  | APPR  | OPRIATE BOX IF A MEMBER OF A GROUP*   | (a)  X <br>(b)  _ |  |  |

| 3  | SEC USE O                    | NLY              |  |  |  |  |  |
|----|------------------------------|------------------|--|--|--|--|--|
|    |                              |                  |  |  |  |  |  |
| 4  | SOURCE OF FUNDS* WC          |                  |  |  |  |  |  |
| 5  |                              |                  | ISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED  EMS 2(d) OR 2(e)  _  |  |  |  |  |
| 6  | CITIZENSH                    | <br>IP OF        | PLACE OF ORGANIZATION  |  |  |  |  |
|    |                              | <br>7            | SOLE VOTING POWER  |  |  |  |  |
|    |                              |                  | 94,900 common shares (0.21%)   |  |  |  |  |
| S  | MBER OF<br>HARES<br>FICIALLY | 8                | SHARED VOTING POWER  |  |  |  |  |
|    | NED BY<br>EACH               | 9                | SOLE DISPOSITIVE POWER   |  |  |  |  |
| P  | PORTING<br>ERSON             |                  | 94,900   |  |  |  |  |
|    | WITH                         | 10               | SHARED DISPOSITIVE POWER   |  |  |  |  |
|    |                              |                  | 0  |  |  |  |  |
| 11 | AGGREGATE                    | JOMA             | NT BENEFICIALLY OWNED BY EACH REPORTING PERSON   |  |  |  |  |
|    | 2,571,156                    | shar             | es (5.7%)  |  |  |  |  |
| 12 | CHECK BOX                    | IF T             | HE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES*  _  |  |  |  |  |
| 13 | PERCENT O                    | F<br>CL <i>P</i> | SS REPRESENTED BY AMOUNT IN ROW (11)   |  |  |  |  |
|    | 5.7%                         |                  |  |  |  |  |  |
| 14 | TYPE OF R                    | EPORI            | ING PERSON*  |  |  |  |  |
|    | PN                           |                  |  |  |  |  |  |
|    |                              |                  | *SEE INSTRUCTIONS BEFORE FILLING OUT!  |  |  |  |  |
|    |                              |                  | 4  |  |  |  |  |
| 1  |                              |                  | ING PERSON IDENTIFICATION NOS. OF ABOVE PERSON   |  |  |  |  |
|    |                              |                  | e Fund, L.P. (David Nierenberg is president of the General is Nierenberg Investment Management Company.) |  |  |  |  |

| 2    | CHECK THE  | APPI     | ROPRIATE BOX IF A MEMBER OF A GROUP*          | (a)<br>(b)  |           |  |
|------|--|----------|---|-------------|-----------|--|
| 3    | SEC USE O  | NLY      |   |             |           |  |
| 4    | SOURCE OF  | FUNI     | DS* WC  |             |           |  |
| 5    | CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e)  _ |          |   |             |           |  |
| 6    |  | IP O     | R PLACE OF ORGANIZATION                       |             |           |  |
|      | USA<br>  |          | SOLE VOTING POWER                             |             |           |  |
|      |  | ,        | 617,650 common shares (1.36%)                 |             |           |  |
| NI   | JMBER OF   | <br>8    | SHARED VOTING POWER                           |             |           |  |
| ,    | SHARES<br>EFICIALLY  | Ü        | 0   |             |           |  |
| 10   | WNED BY<br>EACH  | 9        | SOLE DISPOSITIVE POWER                        |             |           |  |
|      | EPORTING<br>PERSON   |          | 617,650                                       |             |           |  |
| WITH |  | 10       | SHARED DISPOSITIVE POWER                      |             |           |  |
|      |  |          | 0   |             |           |  |
| 11   | AGGREGATE  | AMO      | JNT BENEFICIALLY OWNED BY EACH REPORTING PERS | <br>SON     |           |  |
|      | 2,571,156  | sha      | res (5.7%)                                    |             |           |  |
| 12   | CHECK BOX  | IF :     | THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CER | <br>RTAIN S | HARES*  _ |  |
| 13   |  |          | ASS REPRESENTED BY AMOUNT IN ROW (11)         |             |           |  |
|      | 5.7%   |          |   |             |           |  |
| 14   | TYPE OF R  | EPOR     | IING PERSON*                                  |             |           |  |
|      | PN   |          |   |             |           |  |
|      |  |          | *SEE INSTRUCTIONS BEFORE FILLING OUT!         |             |           |  |
|      |  |          | 5   |             |           |  |
| 1    | NAME OF R  | <br>EPOR | <br>FING PERSON                               |             |           |  |

5

S.S. OR I.R.S. IDENTIFICATION NOS. OF ABOVE PERSON

The D3 Family Bulldog Fund, L.P. (David Nierenberg is president of the General Partner, which is Nierenberg Investment Management Company.)

| 2      | CHECK THE  | APPR  | DPRIATE BOX IF A MEMBER OF A GROUP*                         |  | X <br> _ |   |  |
|--------|--|-------|---|--|----------|---|--|
| 3      | SEC USE OI   | NLY   |   |  |          |   |  |
| 4      | SOURCE OF FUNDS* WC                                  |       |   |  |          |   |  |
| <br>5  |  |       | ISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED EMS 2(d) OR 2(e) |  | I_I      |   |  |
| 6      | CITIZENSH:   | IP OR | PLACE OF ORGANIZATION                                       |  |          |   |  |
|        |  | 7     | SOLE VOTING POWER  194,350 common shares (0.43%)            |  |          |   |  |
| BENE   | MBER OF CHARES CFICIALLY MED BY EACH CPORTING CERSON | 8     | SHARED VOTING POWER   |  |          |   |  |
| RI     |  |       | SOLE DISPOSITIVE POWER 194,350                              |  |          |   |  |
|        | WITH   | 10    | SHARED DISPOSITIVE POWER                                    |  |          |   |  |
| 11     | AGGREGATE<br>2,571,156                               |       | NT BENEFICIALLY OWNED BY EACH REPORTING PERSO               |  |          |   |  |
| <br>12 | CHECK BOX  | IF T  | HE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERT               |  | SHARES*  | _ |  |
| <br>13 | 5.7%   |       | SS REPRESENTED BY AMOUNT IN ROW (11)                        |  |          |   |  |
| 14     | TYPE OF RI   |       |   |  |          |   |  |
|        |  |       | *SEE INSTRUCTIONS BEFORE FILLING OUT!                       |  |          |   |  |

6

Item 1. Security and Issuer.

Common stock in BROOKS AUTOMATION, INC. (BRKS) 15 Elizabeth Drive, Chelmsford, MA 01824-4111.

Item 2. Identity and Background.

The D3 Family Fund, L.P. is a Washington State limited partnership, whose principal business is investing in the equities of public micro-cap issuers. Located at 19605 N.E. 8th St., Camas, Washington 98607. No convictions or administrative proceedings as described in 2 (d) and (e).

Item 3. Source and Amount of Funds or Other Consideration

Source of funds is money invested in the partnership by its partners.

Item 4. Purpose of Transaction

Because we enthusiastically support BRKS acquisition of HELX, we acquired additional shares of BRKS. Not only has BRKS characterized the financial impact of this acquisition as "significantly accretive" (language which has real meaning at a time when lawyers agonize over every word in a press release), we also believe the acquisition will bring several important strategic and operating benefits to the combined company:

- o The combined companies will control 51% and potentially up to 66% of the value added content of the vacuum robotic systems they will manufacture, a large enough share of the value added to enable them to offer meaningful savings to Tier 1 semi-conductor capital equipment OEM's who are considering outsourcing their vacuum robotics systems to BRKS. We believe this acquisition will create a company with enough capability and scale to accelerate this outsourcing process.
- o HELX's field service capabilities will enable BRKS to more rapidly grow this profitable, stable source of recurring revenue.
- o We believe the overall management of the combined company will be strengthened through the merger, with BRKS bringing strong financial management and HELX strong operating and global manufacturing management.
- o Because the combined company will be one of the largest semiconductor capital equipment subsystems suppliers, we hope shareholders might enjoy greater liquidity and higher valuations.

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o Finally, we observed at Semicon West this week that the two CEO's of the companies already work very well together. We think the risk of friction is exceptionally low, both because the business lines are complementary and because of the flexible, accommodating personalities of the two CEO's.

Item 5. Interest in Securities of the Issuer.

(a,b) The D3 Family Fund, L.P. owns and has sole voting and dispositive power over 1,269,556 common shares of BRKS.

| (C) | Date    | Shares Bought | Price |
|-----|---------|---------------|-------|
|     |         |               |       |
|     | 7/11/05 | 90,300        | 14.66 |
|     | 7/14/05 | 123,700       | 15.39 |

- (d) N/A
- (e) N/A

Item 6. Contracts, Arrangements, Understandings or Relationships with Respect to Securities of the Issuer.

N/A

Item 7. Material to be Filed as Exhibits

N/A

#### SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, each of the undersigned certifies that the information set forth in the Statement is true, complete and correct.

July 15, 2005

/s/ DAVID NIERENBERG

\_\_\_\_\_

David Nierenberg

President

Nierenberg Investment Management Company, Inc., the General Partner of The D3 Family Fund, L.P

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Item 1. Security and Issuer.

Common stock in BROOKS AUTOMATION, INC. (BRKS) 15 Elizabeth Drive, Chelmsford, MA 01824-4111.

Item 2. Identity and Background.

The D3 Family Retirement Fund, L.P. is a Washington State limited partnership, whose principal Business is investing in the equities of public micro-cap issuers. Located at 19605 N.E. 8th St., Camas, Washington 98607. No convictions or administrative proceedings as described in 2 (d) and (e).

Item 3. Source and Amount of Funds or Other Consideration

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Item 5. Interest in Securities of the Issuer.

(a,b) The D3 Family Retirement Fund, L.P. owns and has sole voting and dispositive power over 394,700 common shares of BRKS.

| (C) | Date    | Shares Bough | nt Price |
|-----|---------|--------------|----------|
|     |         |              |          |
|     | 7/11/05 | 21,900       | 14.66    |
|     | 7/14/05 | 39,300       | 15.39    |

- (d) N/A
- (e) N/A
- Item 6. Contracts, Arrangements, Understandings or Relationships with Respect to Securities of the Issuer.

N/A

Item 7. Material to be Filed as Exhibits

N/A

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.

July 15, 2005 Date /s/ DAVID NIERENBERG

-----

David Nierenberg
President

Nierenberg Investment Management Company, Inc., the General Partner of the D3 Family

Retirement Fund, L.P.

10

Item 1. Security and Issuer.

Common stock in BROOKS AUTOMATION, INC. (BRKS) 15 Elizabeth Drive, Chelmsford, MA 01824-4111.

Item 2. Identity and Background.

The D3 Children's Fund, L.P. is a Washington State limited partnership, whose principal business is investing in the equities of public micro-cap Issuers. Located at 19605 N.E. 8th St., Camas, Washington 98607. No convictions or administrative proceedings as described in 2 (d) and (e).

Item 3. Source and Amount of Funds or Other Consideration

Source of funds is money invested in the partnership by its partners.

Item 4. Purpose of Transaction

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- o Because the combined company will be one of the largest semiconductor capital equipment subsystems suppliers, we hope shareholders might enjoy greater liquidity and higher valuations.
- o Finally, we observed at Semicon West this week that the two CEO's of the companies already work very well together. We think the risk of

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friction is exceptionally low, both because the business lines are complementary and because of the flexible, accommodating personalities of the two CEO's.

Item 5. Interest in Securities of the Issuer.

(a,b) The D3 Children's Fund, L.P. owns and has sole voting and dispositive power over 94,900 common shares of BRKS.

| (C) | Date    | Shares Bought | Price |
|-----|---------|---------------|-------|
|     |         |               |       |
|     | 6/15/05 | 1,000         | 15.64 |
|     | 7/11/05 | 14,000        | 14.66 |
|     | 7/14/05 | 9,500         | 15.39 |

- (d) N/A
- (e) N/A

Item 6. Contracts, Arrangements, Understandings or Relationships with Respect to Securities of the Issuer.

N/A

Item 7. Material to be Filed as Exhibits

N/A

#### SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, each of the undersigned certifies that the information set forth in the Statement is true, complete and correct.

July 15, 2005 /s/ DAVID NIERENBERG

David Nierenberg President

Nierenberg Investment Management Company, Inc., the General Partner of The D3 Children's Fund, L.P.

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Item 1. Security and Issuer.

Common stock in BROOKS AUTOMATION, INC. (BRKS) 15 Elizabeth Drive, Chelmsford, MA 01824-4111.

Item 2. Identity and Background.

The D3 Offshore Fund, L.P. is a Washington State limited partnership, whose principal business is investing in the equities of public micro-cap issuers. Located at 19605 N.E. 8th St., Camas, Washington

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friction is exceptionally low, both because the business lines are complementary and because of the flexible, accommodating personalities of the two CEO's.

Item 5. Interest in Securities of the Issuer.

(a,b) The D3 Offshore Fund, L.P. owns and has sole voting and dispositive power over 617,650 common shares of BRKS.

| (C) | Date    | Shares Bought | Price |
|-----|---------|---------------|-------|
|     |         |               |       |
|     | 5/18/05 | 40,000        | 14.29 |
|     | 5/23/05 | 30,000        | 14.42 |
|     | 5/24/05 | 5,700         | 14.38 |
|     | 5/25/05 | 7,000         | 14.28 |
|     | 6/1/05  | 10,000        | 15.38 |
|     | 6/2/05  | 10,000        | 15.62 |
|     | 6/3/05  | 25,000        | 15.29 |
|     |         |               |       |

| 6/6/05  | 43,500          | 15.05 |
|---------|-----------------|-------|
| 6/7/05  | 20,000          | 15.22 |
| 6/8/05  | 15,000          | 15.29 |
| 6/9/05  | 5,000           | 15.36 |
| 6/13/05 | 10,000          | 15.73 |
| 6/14/05 | 22,000          | 15.74 |
| 6/15/05 | 4,400           | 15.62 |
| 6/24/05 | 10,000          | 15.33 |
| 7/11/05 | 102,300         | 14.66 |
| 7/14/05 | 58 <b>,</b> 750 | 15.39 |

- (d) N/A
- (e) N/A

Item 6. Contracts, Arrangements, Understandings or Relationships with Respect to Securities of the Issuer.

N/A

Item 7. Material to be Filed as Exhibits

N/A

#### SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, each of the undersigned certifies that the information set forth in the Statement is true, complete and correct.

July 15, 2005

/s/ DAVID NIERENBERG

-----

David Nierenberg President

Nierenberg Investment Management Company, Inc., the General Partner of

the D3 Offshore Fund, L.P.

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Item 1. Security and Issuer.

Common stock in BROOKS AUTOMATION, INC. (BRKS) 15 Elizabeth Drive, Chelmsford, MA 01824-4111.

Item 2. Identity and Background.

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Item 5. Interest in Securities of the Issuer.

(a,b) The D3 Family Bulldog Fund, L.P. owns and has sole voting and dispositive power over 194,350 common shares of BRKS.

| (C) | Date    | Shares Bought | Price |
|-----|---------|---------------|-------|
|     |         |               |       |
|     | 6/14/05 | 18,000        | 15.74 |
|     | 7/11/05 | 20,800        | 14.66 |
|     | 7/14/05 | 18,750        | 15.39 |

- (d) N/A
- (e) N/A
- Item 6. Contracts, Arrangements, Understandings or Relationships with Respect to Securities of the Issuer.

N/A

Item 7. Material to be Filed as Exhibits

N/A

#### SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, each of the undersigned certifies that the information set forth in the Statement is true, complete and correct.

July 15, 2005

/s/ DAVID NIERENBERG

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David Nierenberg President Nierenberg Investment Management Company, Inc., the General Partner of The D3 Family Bulldog Fund, L.P.

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