BROOKS AUTOMATION INC Form SC 13D/A July 06, 2006

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

SCHEDULE 13D
Under the Securities Exchange Act of 1934
(Amendment No. 5)

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

With a copy to:

Henry Lesser, Esq.
DLA Piper Rudnick Gray Cary US LLP
2000 University Avenue
East Palo Alto, CA 94303
(650) 833-2000

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

June 30, 2006 (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.			
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*	(a) (b)	X   _	
3	SEC USE ONLY			
4	SOURCE OF FUNDS*			

	WC			
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e)  _			
6	CITIZENS	 HIP O	R PLACE OF ORGANIZATION	
	Washingto	on		
		7	SOLE VOTING POWER	
			803,015 Common shares (1.1%)	
	UMBER OF	8	SHARED VOTING POWER	
BENI	SHARES EFICIALLY		0	
	WNED BY EACH	9	SOLE DISPOSITIVE POWER	
	EPORTING PERSON		803,015	
	WITH	10	SHARED DISPOSITIVE POWER	
			0	
12	reporting	g per	ting person listed on this page, 803,015; for a sons as a group, 4,401,838 shares (5.9%)  THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTA	
13	PERCENT (	OF CL	ASS REPRESENTED BY AMOUNT IN ROW (11)	
	5.9%			
14	TYPE OF F	 REPOR	TING PERSON*	
	PN			
			*SEE INSTRUCTIONS BEFORE FILLING OUT!	
			2	
1			TING PERSON . IDENTIFICATION NOS. OF ABOVE PERSON	
	The D3 Fa	amily	Retirement Fund, L.P.	
2	CHECK THE	 E APP		(a)  X  (b)  _
3	SEC USE (	 NT <sub>1</sub> Y		

4	SOURCE OF	FUN	DS*	
	WC			
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e)  _			
6	CITIZENSE	IIP O	R PLACE OF ORGANIZATION	
	Washingto	n		
		7	SOLE VOTING POWER	
			0 common shares (0%)	
	MBER OF	8	SHARED VOTING POWER	
BENE	HARES FICIALLY		0	
	NED BY EACH	9	SOLE DISPOSITIVE POWER	
Р	PORTING ERSON		0	
	WITH	10	SHARED DISPOSITIVE POWER	
			0	
11	For the r	epor	UNT BENEFICIALLY OWNED BY EACH REPORTING PERSON ting person listed on this page, 0; for all sons as a group, 4,401,838 shares (5.9%)	
12	CHECK BOX		THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAI	N SHARES*  _
13	PERCENT C	OF CL	ASS REPRESENTED BY AMOUNT IN ROW (11)	
	5.9%			
14	TYPE OF F	REPOR'	 ΓING PERSON*	
	PN			
			*SEE INSTRUCTIONS BEFORE FILLING OUT!	
			3	
1			FING PERSON IDENTIFICATION NOS. OF ABOVE PERSON	
	The D3 Ch	ildr	en's Fund, L.P.	
2	CHECK THE	APP	ROPRIATE BOX IF A MEMBER OF A GROUP*	
				a)  X  b)  _

3	SEC USE ONLY				
4	SOURCE OF	 FUNI	 9S*		
	WC				
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e)  _				
6	CITIZENSH	IP OF	R PLACE OF ORGANIZATION		
	Washingto	n			
		7	SOLE VOTING POWER		
			0 common shares (0%)		
	MBER OF	8	SHARED VOTING POWER		
BENEI OWI	HARES FICIALLY		0		
	NED BY EACH	9	SOLE DISPOSITIVE POWER		
PI	PORTING PERSON		0		
1	WITH	10	SHARED DISPOSITIVE POWER		
			0		
11	For the r	eport	JNT BENEFICIALLY OWNED BY EACH REPORTING PERSON ting person listed on this page, 0; for all sons as a group, 4,401,838 shares (5.9%)		
12	CHECK BOX	IF 1	THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES*	_	
13	PERCENT O	F CL	ASS REPRESENTED BY AMOUNT IN ROW (11)		
	5.9%				
14	TYPE OF R	EPORT	TING PERSON*		
	PN 				
			*SEE INSTRUCTIONS BEFORE FILLING OUT!		
			4		
1			TING PERSON IDENTIFICATION NOS. OF ABOVE PERSON		
	The DIII Offshore Fund, L.P.				

2	CHECK THE	APPI	ROPRIATE BOX IF A MEMBER OF A GROUP*		1771		
					X    _		
3	SEC USE C	SEC USE ONLY					
4	SOURCE OF	FUNI	)S*				
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e)  _						
6	CITIZENSH	IIP OF	PLACE OF ORGANIZATION				
	Bahamas						
		7	SOLE VOTING POWER				
			1,045,998 common shares (1.4%)				
N	UMBER OF	8	SHARED VOTING POWER				
	SHARES EFICIALLY		0				
70	WNED BY EACH	9	SOLE DISPOSITIVE POWER				
	EPORTING PERSON		1,045,998				
	WITH	10	SHARED DISPOSITIVE POWER				
			0				
11	For the r	report	UNT BENEFICIALLY OWNED BY EACH REPORTING PERSON ing person listed on this page, 1,045,998; for persons as a group, 4,401,838 shares (5.9%)				
12	CHECK BOX		THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTA	IN	SHARES*	1_1	
13	PERCENT C	F CLA	ASS REPRESENTED BY AMOUNT IN ROW (11)				
	5.9%						
14	TYPE OF F	REPOR	TING PERSON*				
	PN						
			*SEE INSTRUCTIONS BEFORE FILLING OUT!				
			5				
	NAME OF E		TINC DEDSON				

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

	The D3 Fa	mily	Bulldog Fund, L.P.			
2	CHECK THE	APPI	ROPRIATE BOX IF A MEMBER OF A GROUP*		X   _	
3	SEC USE O	NLY				
4	SOURCE OF	SOURCE OF FUNDS*				
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e)  _					
6	CITIZENSH Washingto		PLACE OF ORGANIZATION			
		7	SOLE VOTING POWER  2,552,825 common shares (3.4%)			
S	UMBER OF SHARES EFICIALLY WNED BY EACH EPORTING PERSON WITH	8	SHARED VOTING POWER			
RE		9	SOLE DISPOSITIVE POWER  2,552,825			
		10	SHARED DISPOSITIVE POWER 0			
11	For the r	eport	JNT BENEFICIALLY OWNED BY EACH REPORTING PERSO ling person listed on this page, 2,552,825; fo persons as a group, 4,401,838 shares (5.9%)			
12	CHECK BOX	IF 3	THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERT			
13	PERCENT O	F CLA	ASS REPRESENTED BY AMOUNT IN ROW (11)			
14	TYPE OF R	EPOR				
			*SEE INSTRUCTIONS BEFORE FILLING OUT!			

1			TING PERSON . IDENTIFICATION NOS. OF ABOVE PERSON		
	Nierenber	g In	vestment Management Company, Inc.		
2	CHECK THE	APP	ROPRIATE BOX IF A MEMBER OF A GROUP*	(a)  X  (b)  _	
3	SEC USE ONLY				
4	SOURCE OF	FUN	DS*		
	WC				
5			DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED IEMS 2(d) OR 2(e)	_	
6	CITIZENSH	IP 0	R PLACE OF ORGANIZATION		
	Washingto 	n 			
		7	SOLE VOTING POWER		
	UMBER OF		0		
		8	SHARED VOTING POWER		
BENE	SHARES EFICIALLY		4,401,838 shares (5.9%)		
	NNED BY EACH	9	SOLE DISPOSITIVE POWER		
	EPORTING PERSON		0		
	WITH	10	SHARED DISPOSITIVE POWER		
			4,401,838		
11	For the rall repor	AMO epor ting	UNT BENEFICIALLY OWNED BY EACH REPORTING PERSting person listed on this page, 4,401,838; f persons as a group, 4,401,838 shares (5.9%)	or	
12	CHECK BOX		THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CEF		
13	PERCENT O	F CL	ASS REPRESENTED BY AMOUNT IN ROW (11)		
	5.9% 				
14	TYPE OF R	EPOR'	TING PERSON*		
	PN				
			*SEE INSTRUCTIONS BEFORE FILLING OUT!		

1	NAME OF REPORTING PERSON S.S. OR I.R.S. IDENTIFICATION NOS. OF ABOVE PERSON					
	Nierenber	g Inv	restment Management Offshore, Inc.			
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*  (a)  X   (b)  _					
3	SEC USE O					
4	SOURCE OF	FUND	 S*			
	WC					
5			DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED (EMS 2(d) OR 2(e)	_		
6	CITIZENSH	IP OF	PLACE OF ORGANIZATION			
	Bahamas					
		7	SOLE VOTING POWER			
	UMBER OF SHARES EFICIALLY WNED BY		0			
		8	SHARED VOTING POWER			
BENE			1,045,998 common shares (1.4%)			
	EACH PORTING	9	SOLE DISPOSITIVE POWER			
P	ERSON WITH		0			
	WIII	10	SHARED DISPOSITIVE POWER			
			1,045,998 common shares			
11	For the r	eport	INT BENEFICIALLY OWNED BY EACH REPORTING PERSON ing person listed on this page, 1,045,998; for persons as a group, 4,401,838 shares (5.9%)			
12	CHECK BOX	IF T	HE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN	N SHARES*	_	
13	PERCENT O	F CLA	SS REPRESENTED BY AMOUNT IN ROW (11)			
	5.9%					
14	TYPE OF R	EPORT	ING PERSON*			
	PN					

\_\_\_\_\_\_

\*SEE INSTRUCTIONS BEFORE FILLING OUT!

8

This Amendment No. 5 to Schedule 13D (this "Amendment") amends the below-indicated items from the Schedule 13D previously filed by or on behalf of the undersigned parties (the "Reporting Persons"), as previously amended (the "Schedule 13D"), by supplementing such Items with the information below:

#### Item 2. Identity and Background

The D3 Funds, which are identified in response to Item 4, are Washington State limited partnerships (except for the DIII Offshore Fund, L.P., which is a Bahamian limited partnership). The D3 Funds are filling this Amendment, together with: Nierenberg Investment Management Company, Inc., a Washington State corporation, which is the general partner of all of the D3 Funds except the DIII Offshore Fund, L.P.; and Nierenberg Investment Management Offshore, Inc., a Bahamian corporation, which is the general partner of the DIII Offshore Fund, L.P., and is a wholly-owned subsidiary of Nierenberg Investment Management Company, Inc.

#### Item 3. Source and Amount of Funds or Other Consideration

Reference is made to Item 4 of this Amendment, which is incorporated by reference in response to this Item.

#### Item 4. Purpose of Transaction

Effective June 30, 2006, four of the D3 Funds, namely (i) the D3 Family Fund, L.P., (ii) the D3 Bulldog Fund, L.P., (iii) the D3 Children's Fund, L.P., and (iv) the D3 Family Retirement Fund, L.P., (collectively the "Participating Funds") effected a consolidation of their respective assets and operations (the "Consolidation"). The Consolidation was implemented through a series of simultaneous transactions approved by the constituent partners of each of the Participating Funds, including the following: (i) approximately 80% of the fair market value of the assets of D3 Family Fund were transferred and contributed to D3 Bulldog Fund; (ii) all of the assets of D3 Children's Fund were transferred and contributed in separate parts to each of D3 Bulldog Fund and D3 Family Fund; and (iii) all of the assets of D3 Retirement Fund were transferred and contributed in separate parts to each of D3 Bulldog Fund and D3 Family Fund. To the extent the transferred and contributed assets of the Participating Funds consisted of any shares of the class previously reported on the Schedule 13D as being beneficially owned by any such Participating Fund (the "Shares"), for all purposes and transactions involved in the Consolidation the Shares were valued at fair market value as represented by the (closing price) as at June 30, 2006 and treated as having been re-allocated internally amongst the Participating Funds at the fair market value.

As a result of the Consolidation, each of D3 Children's Fund and D3 Retirement Fund no longer beneficially owns any Shares, and correspondingly, the number of Shares owned beneficially by each of D3 Family Fund and D3 Bulldog Fund has increased. After giving effect to the Consolidation, the aggregate beneficial ownership of Shares by the Participating Funds and their respective general partners has not changed. Further, the Consolidation did not include or involve the fifth fund, DIII Offshore Fund, L.P. Accordingly, after giving effect to the Consolidation, the aggregate beneficial ownership of Shares on the part of all filing persons as a group has not changed.

9

Also see Item 5 of this Amendment.

Item 5. Interest in Securities of the Issuer.

- (a, b) The Reporting Persons, in the aggregate, beneficially own 4,401,838 common shares, constituting approximately 5.9% of the outstanding Shares.
- (c) During the past sixty (60) days, preceding the consummation of the Consolidation, the following purchases of Shares were made by D3 Family Funds in open market transactions:

10

Fund	Transaction Date	Shares Bought	Price
D3 Family Fund, L.P.	5/31/2006	1,500	11.99
D3 Family Fund, L.P.	5/30/2006	27,700	11.93
D3 Family Fund, L.P.	5/24/2006	14,000	11.86
D3 Family Fund, L.P.	5/23/2006	34,800	12.11
D3 Family Fund, L.P.	5/22/2006	18,900	12.21
D3 Family Fund, L.P.	5/19/2006	21,000	12.27
D3 Family Fund, L.P.	5/11/2006	18,000	14.35
D3 Family Fund, L.P.	5/8/2006	42,600	14.79
D3 Family Bulldog Fund, L.P.	6/23/2006	2,500	11.00
D3 Family Bulldog Fund, L.P.	6/13/2006	5,000	11.30
D3 Family Bulldog Fund, L.P.	6/12/2006	25,000	11.52
D3 Family Bulldog Fund, L.P.	6/8/2006	4,000	11.73
D3 Family Bulldog Fund, L.P.	6/5/2006	2,000	11.99
D3 Family Bulldog Fund, L.P.	5/30/2006	9,000	11.93
D3 Family Bulldog Fund, L.P.	5/24/2006	4,000	11.86
D3 Family Bulldog Fund, L.P.	5/23/2006	13,000	12.11
D3 Family Bulldog Fund, L.P.	5/22/2006	5,500	12.21
D3 Family Bulldog Fund, L.P.	5/19/2006	13,000	12.27
D3 Family Bulldog Fund, L.P.	5/11/2006	6,000	14.35
D3 Family Bulldog Fund, L.P.	5/8/2006	30,300	14.79
D3 Family Retirement Fund, L.P.	5/30/2006	9,500	11.93
D3 Family Retirement Fund, L.P.	5/24/2006	4,500	11.86
D3 Family Retirement Fund, L.P.	5/23/2006	12,000	12.11
D3 Family Retirement Fund, L.P.	5/22/2006	5,500	12.21
D3 Family Retirement Fund, L.P.	5/19/2006	10,000	12.27
D3 Family Retirement Fund, L.P.	5/11/2006	6,000	14.35
D3 Family Retirement Fund, L.P.	5/8/2006	64,600	14.79
D3 Children's Fund, L.P.	5/30/2006	2,500	11.93
D3 Children's Fund, L.P.	5/24/2006	1,200	11.86
D3 Children's Fund, L.P.	5/23/2006	3,200	12.11
D3 Children's Fund, L.P.	5/22/2006	1,600	12.21
D3 Children's Fund, L.P.	5/19/2006	1,100	12.27
D3 Offshore Fund, L.P.	6/27/2006	300	11.00
D3 Offshore Fund, L.P.	6/9/2006	23,000	11.72
D3 Offshore Fund, L.P.	6/8/2006	21,000	11.73
D3 Offshore Fund, L.P.	6/7/2006	48,500	12.12
D3 Offshore Fund, L.P.	6/7/2006	25,000	12.05
D3 Offshore Fund, L.P.	5/30/2006	13,800	11.93
D3 Offshore Fund, L.P.	5/24/2006	6,300	11.86
D3 Offshore Fund, L.P.	5/23/2006	12,000	12.11
D3 Offshore Fund, L.P.	5/22/2006	8,500	12.21

D3 Offshore Fund,	L.P.	5/19/2006	12,400	12.27
D3 Offshore Fund,	L.P.	5/11/2006	9,538	14.35

11

As a result of the Consolidation, including any internal re-allocation of Shares amongst the Participating Funds as described in Item 4 of this Amendment (which is incorporated by reference in response to this Item 5), the following transfers of Shares among the D3 Family Funds may be deemed to have occurred, the transaction date of all such transfers being June 30, 2006.

- D3 Children's Fund: transferred 168,460 Shares, constituting all of its Shares
- $\mbox{\rm D3}$  Retirement Fund: transferred 652,850 Shares, constituting all of its Shares
- D3 Family Fund: number of Shares decreased from 1,894,532 to 803,015 representing approximately 1.1% of the outstanding Shares
- D3 Bulldog Fund: number of Shares increased from 639,998 to 2,552,825 representing approximately 3.4% of the outstanding Shares
- (d) On June 30, 2006, D3 Children's Fund and D3 Retirement Fund ceased to be the direct beneficial owners of any Shares and ceased to be members of a filing group with the other three Funds.
- Item 6. Contracts, Arrangements, Understandings or Relationships with the Issuer

Exhibit 1 to this Amendment is hereby incorporated by reference in response to this item.

Also see Item 4 of this Amendment.

Item 7. Material to be filed as Exhibits

Exhibit 1 to this Amendment is the form of document used to effect the transfer of (among other assets) Shares pursuant to the consolidation.

Exhibit 2 to this Amendment is the joint filing agreement pursuant to which all of the filing persons have authorized the filing of this Amendment as a group.

12

### 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.

D3 Family Fund, L.P., D3 Bulldog Fund, L.P., D3 Children's Fund, L.P., and D3 Family Retirement Fund, L.P.

By: Nierenberg Investment Management Company, Inc.

Its: General Partner

July 05, 2006	By: /s/ David Nierenberg
	David Nierenberg, President
	DIII Offshore Fund, L.P.
	By: Nierenberg Investment Management Offshore, Inc.
	Its: General Partner
July 05, 2006	By: /s/ David Nierenberg
	David Nierenberg, President
	Nierenberg Investment Management Company, Inc.
July 05, 2006	By: /s/ David Nierenberg
	David Nierenberg, President
	Nierenberg Investment Management Offshore, Inc.
July 05, 2006	By: /s/ David Nierenberg
	David Nierenberg, President