BROOKS AUTOMATION INC Form SC 13D/A October 07, 2008

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

SCHEDULE 13D
Under the Securities Exchange Act of 1934
(Amendment No. 9)

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 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) October 6, 2008
(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 $ _ $.
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*

				(b)	_
3 SE	C USE O	NLY			
4 SO	URCE OF	FUND	S*		
WC					
			ISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED EMS 2(d) OR 2(e)		I_I
6 CI	TIZENSH	IP OF	PLACE OF ORGANIZATION		
Wa	shingto	n			
		7	SOLE VOTING POWER		
			0		
NUMBE SHAR		8	SHARED VOTING POWER		
BENEFIC	IALLY		977,504 common shares (1.54%)		
EAC	NED BY EACH PORTING ERSON WITH	9	SOLE DISPOSITIVE POWER		
PERS			0		
WII		10	SHARED DISPOSITIVE POWER		
			977,504		
11 AG	GREGATE	AMOU	NT BENEFICIALLY OWNED BY EACH REPORTING PERSO	N	
			ting person listed on this page, 977,504; for group, 6,346,806 shares (9.98%)	all	reporting
12 CH	ECK BOX	IF T	HE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERT	AIN S	HARES* _
		E CLA	SS REPRESENTED BY AMOUNT IN ROW (11)		
	98% 				
14 TY	PE OF R	EPORT	ING PERSON*		
PN					
			*SEE INSTRUCTIONS BEFORE FILLING OUT!		
			2		
			ING PERSON IDENTIFICATION NOS. OF ABOVE PERSON		

	The D3 Fa	mily	Bulldog Fund, L.P.		
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* (a) X (b) _				
3	SEC USE O				
4	SOURCE OF FUNDS*				
	WC				
5			DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED TEMS 2(d) OR 2(e)		1_1
6	CITIZENSH	IP O	R PLACE OF ORGANIZATION		
	Washingto	n			
		7	SOLE VOTING POWER		
			0		
	UMBER OF SHARES	8	SHARED VOTING POWER		
BEN:	EFICIALLY WNED BY		3,920,907 common shares (6.17%)		
	EACH EPORTING	9	SOLE DISPOSITIVE POWER		
	PERSON WITH		0		
	WIII	10	SHARED DISPOSITIVE POWER		
			3,920,907		
11	AGGREGATE	AMO	UNT BENEFICIALLY OWNED BY EACH REPORTING PERS	SON	
			ting person listed on this page, 3,920,907; fgroup, 6,346,806 shares (9.98%)	for all	reporting
12	СНЕСК ВОХ	IF	THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CER	RTAIN S	HARES* _
13	PERCENT O	 F CL	ASS REPRESENTED BY AMOUNT IN ROW (11)		
	9.98%				
14	TYPE OF R	EPOR	TING PERSON*		
	PN				
			*SEE INSTRUCTIONS BEFORE FILLING OUT!		
			3		

1	NAME OF REPORTING PERSON S.S. OR I.R.S. IDENTIFICATION NOS. OF ABOVE PERSON					
	The D3 Fa	mily	Canadian Fund, L.P.			
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* (a) X (b) _					
3	SEC USE O	NLY				
4	SOURCE OF FUNDS*					
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e) _					
6	CITIZENSH Washingto		R PLACE OF ORGANIZATION			
		7	SOLE VOTING POWER			
BENE	JMBER OF SHARES SFICIALLY JNED BY	8	SHARED VOTING POWER 367,675 common shares (0.58%)			
EA REPO PEI	EACH EPORTING PERSON WITH	9	SOLE DISPOSITIVE POWER 0			
		10	SHARED DISPOSITIVE POWER 367,675			
11	For the r	eport	JNT BENEFICIALLY OWNED BY EACH REPORTING PERSOning person listed on this page, 367,675 share sons as a group, 6,346,806 shares (9.98%)		or all	
12	CHECK BOX	IF 1	THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERI			_
13	PERCENT 0	F CLA	ASS REPRESENTED BY AMOUNT IN ROW (11)			
14	TYPE OF R	 EPORI	TING PERSON*			
			*SEE INSTRUCTIONS BEFORE FILLING OUT!			

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1	NAME OF REPORTING PERSON S.S. OR I.R.S. IDENTIFICATION NOS. OF ABOVE PERSON				
	The DIII Offshore Fund, L.P.				
2	CHECK THE	APPI	ROPRIATE BOX IF A MEMBER OF A GROUP*	(a) (b)	
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	CITIZENSH	IP OF	R PLACE OF ORGANIZATION		
	Washingto	n			
		7	SOLE VOTING POWER		
			0		
S	MBER OF HARES FICIALLY NED BY EACH PORTING ERSON WITH	8	SHARED VOTING POWER 1,080,720 common shares (1.70%)		
		9	SOLE DISPOSITIVE POWER		
			0		
		10	SHARED DISPOSITIVE POWER		
			1,080,720		
11	AGGREGATE	AMOU	JNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	N	
			ring person listed on this page, 1,080,720; for group, 6,346,806 shares (9.98%)	r all	reporting
12	CHECK BOX		THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTA		
13		F CL	ASS REPRESENTED BY AMOUNT IN ROW (11)		
	9.98%				
14	TYPE OF REPORTING PERSON*				

PN

SEE INSTRUCTIONS BEFORE FILLING OUT! 5 ______ NAME OF REPORTING PERSON S.S. OR I.R.S. IDENTIFICATION NOS. OF ABOVE PERSON Nierenberg Investment Management Company, Inc. 2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) |X| _____ 3 SEC USE ONLY 4 SOURCE OF FUNDS* ΑF ______ CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e) _____ CITIZENSHIP OR PLACE OF ORGANIZATION Washington 7 SOLE VOTING POWER Ω ______ NUMBER OF 8 SHARED VOTING POWER SHARES BENEFICIALLY 6,346,806 common shares (9.98%) OWNED BY EACH 9 SOLE DISPOSITIVE POWER REPORTING PERSON 0 WITH ______ 10 SHARED DISPOSITIVE POWER 6,346,806 11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON For the reporting person listed on this page, 6,346,806; for all reporting persons as a group, 6,346,806 shares (9.98%) 12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES* |_| PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)

9.98%

14	TYPE OF R	EPOR	TING PERSON*	
	CO			
			*SEE INSTRUCTIONS BEFORE FILLING OUT!	
			6	
			O Company of the Comp	
1	NAME OF REPORTING PERSON S.S. OR I.R.S. IDENTIFICATION NOS. OF ABOVE PERSON			
	Nierenber	g Inv	vestment Management Offshore, Inc.	
2	CHECK THE	APPI	ROPRIATE BOX IF A MEMBER OF A GROUP*) X
) _
3	SEC USE ONLY			
4	SOURCE OF FUNDS*			
	AF			
5			DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED CEMS 2(d) OR 2(e)	
	1 0105 0711 1	10 1.	Ello Z (d) Ol Z (C)	1_1
6	 CITIZENSH	IP OF	PLACE OF ORGANIZATION	
	Bahamas			
		 7	SOLE VOTING POWER	
			0	
N	UMBER OF	8	SHARED VOTING POWER	
	SHARES EFICIALLY		1,080,720 common shares (1.70%)	
01	WNED BY EACH	9	SOLE DISPOSITIVE POWER	
	EPORTING PERSON		0	
	WITH	10	SHARED DISPOSITIVE POWER	
			1,080,720	
11	AGGREGATE	AMOU	JNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
			ring person listed on this page, 1,080,720; for a group, 6,346,806 shares (9.98%)	ll reporting
12	CHECK BOX		THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN	SHARES* _

13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)					
	9.98%					
14 TYPE OF REPORTING PERSON*						
	CO					
			*SEE INSTRUCTIONS BEFORE FILLING OUT!			
			7			
			1			
1	NAME OF REPORTING PERSON S.S. OR I.R.S. IDENTIFICATION NOS. OF ABOVE PERSON					
	David Nie	renbeı	ca			
2	CHECK THE	APPRO	PRIATE BOX IF A MEMBER OF A GROUP*	(2)	X	
				(b)		
3	SEC USE ONLY					
4	SOURCE OF FUNDS*					
	AF					
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e) _			I_I		
6	 CITIZENSH	 IP OR	PLACE OF ORGANIZATION			
	United St	ates o	of America			
		 7	SOLE VOTING POWER			
			0			
N	UMBER OF	8	SHARED VOTING POWER			
	SHARES EFICIALLY		6,346,806 common shares (9.98%			
10	WNED BY EACH	9	SOLE DISPOSITIVE POWER			
	EPORTING PERSON		0			
	WITH	10	SHARED DISPOSITIVE POWER			
			6,346,806			
11	AGGREGATE	 AMOUN	VT BENEFICIALLY OWNED BY EACH REPORTING PERSO)N		

For the reporting person listed on this page, 6,346,806; for all reporting persons as a group, 6,346,806 shares (9.98%)

12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES* |_|

13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)

9.98%

14 TYPE OF REPORTING PERSON*

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*SEE INSTRUCTIONS BEFORE FILLING OUT!

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This Amendment No.9 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 3. Source and Amount of Funds or Other Consideration

The total amount of funds used by the Reporting Persons to make all of the purchases of Shares, as reported in Item 5(c), was \$860,683. The total amount of funds used by the Reporting Persons to make all purchases of Shares beneficially owned by the Reporting Persons, as reported in Item 5(a, b), was \$83,940,679. The source of funds for purchases of Shares by each of the Reporting Persons is the working capital of the applicable D3 Family Fund.

Item 4. Purpose of Transaction

The Reporting Persons are calling upon BRKS to commit to an immediate and continuing substantial share repurchase program. This request was made in a letter dated October 6, 2007 which the Reporting Persons, through David Nierenberg, sent to BRKS CEO Robert Lepofsky. The letter is attached to this filing and is incorporated by reference herein.

The statements by the Reporting Persons in the above-referenced letter regarding their investment in BRKS represent solely their own analyses and judgments, based on publicly-available information and their own internal evaluation thereof. Those statements are not intended, and should not be relied on, as investment advice to any other investor or prospective investor. To the extent those statements reflect assessments of possible future developments, those assessments are forward-looking statements that are inherently subject to the uncertainties associated with all assessments of future events; actual developments may materially differ as a result of circumstances affecting BRKS and/or extrinsic factors such as developments in BRKS' industry and the economic environment. The Reporting Persons reserve the right to change their internal evaluation of this investment in the future, as well as to increase or decrease their investment depending on their evaluation, and to discuss BRKS and their investment in it with the directors and executive officers of BRKS and third parties, without further amending the Schedule 13D except as required by applicable rules.

Item 5. Interest in Securities of the Issuer

(a, b) The Reporting Persons, in the aggregate, beneficially own 6,346,806 Shares, constituting approximately 9.98% of the outstanding Shares.

(c) During the past sixty (60) days, the following purchases of Shares were made by the Reporting Persons named below in open market transactions:

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Fund	Transaction Date	Shares Bought	Price
D3 Family Canadian Fund, LP	08/12/2008	1,300	9.59
D3 Family Canadian Fund, LP	08/18/2008	13,800	9.56
D3 Family Canadian Fund, LP	08/19/2008	18,000	9.53
D3 Family Canadian Fund, LP	08/20/2008	7,500	9.55
D3 Family Canadian Fund, LP	08/21/2008	7,400	9.47
D3 Family Canadian Fund, LP	08/22/2008	300	9.60
D3 Family Canadian Fund, LP	08/26/2008	21,700	9.55
D3 Family Canadian Fund, LP	08/27/2008	7,000	9.54
D3 Family Canadian Fund, LP	08/29/2008	13,000	9.60

Item 7. Material to be filed as Exhibits

Exhibit 1 to this Amendment is the letter referred to in response to Item 4 of this Amendment.

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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 Family Bulldog
Fund, and D3 Family Canadian Fund, L.P.

By: Nierenberg Investment Management
Company, Inc.

Its: General Partner

October 7, 2008

By: /s/ David Nierenberg

David Nierenberg, President

DIII Offshore Fund, L.P.

By: Nierenberg Investment Management

By: Nierenberg Investment Management Offshore, Inc.

Its: General Partner

October 7, 2008 By: /s/ David Nierenberg

David Nierenberg, President

Nierenberg Investment Management Company, Inc.

October 7, 2008	By: /s/ David Nierenberg
	David Nierenberg, President
	Nierenberg Investment Management Offshore, Inc.
October 7, 2008	By: /s/ David Nierenberg
	David Nierenberg, President
October 7, 2008	/s/ David Nierenberg
	David Nierenberg