BROOKS AUTOMATION INC Form SC 13G/A February 04, 2009

> SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

> > SCHEDULE 13G (Rule 13d-102)

INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT TO RULES 13d-1(b)(c), AND (d) AND AMENDMENTS THERETO FILED PURSUANT TO RULE 13d-2(b)

(Amendment No. 1)\*

Brooks Automation, Inc.

-----

(Name of Issuer)

Common Stock, \$ .01 par value

(Title of Class of Securities)

114340102

-----

(CUSIP Number)

December 31, 2008

-----

(Date of Event Which requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- [X] Rule 13d-1(b)
- [\_] Rule 13d-(c)
- [\_] Rule 13d-1(d)

\_\_\_\_\_

\*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

Page 1 of 10 Pages

CUSIP No. 1143	340102	Schedule 13G	Page 2 of 10	Pages		
I.R.S. II	DENTIF	ING PERSONS ICATION NO. OF ABOVE PERSONS (ENT Management LLC	ITIES ONLY)			
2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* (a) [_ (b) [X						
3. SEC USE (	DNLY					
4. CITIZENSE Delaware	HIP OR	PLACE OF ORGANIZATION				
NUMBER OF	5.	SOLE VOTING POWER				
SHARES		N/A				
BENEFICIALLY	6.	SHARED VOTING POWER				
OWNED BY		N/A				
EACH	7.	SOLE DISPOSITIVE POWER				
REPORTING		N/A				
PERSON	8.	SHARED DISPOSITIVE POWER				
WITH		N/A				
9. AGGREGATE N/A	e amoui	NT BENEFICIALLY OWNED BY EACH REPO	ORTING PERSON			
1N/A. CHECK B	BOX IF	THE AGGREGATE AMOUNT IN ROW (9) 1	EXCLUDES CERTAIN	SHARES*		
11. PERCENT (	OF CLAS	SS REPRESENTED BY AMOUNT IN ROW (	9)			
N/A						

12. TYPE OF REPORTING PERSON\*

ΙA

		*SEE INSTRUCTIONS BEFOR	E FILLING OUT!			
CUSIP No. 11	14340102	Schedule 13G	Page 3 of 10 Pages			
		ING PERSONS ICATION NO. OF ABOVE PERS	GONS (ENTITIES ONLY)			
The Gov	vernor a	nd Company of the Bank of	: Ireland			
2. CHECK 1	THE APPI	OPRIATE BOX IF A MEMBER C	DF A GROUP* (a) [_] (b) [X]			
3. SEC USE	E ONLY					
	NSHIP OF	PLACE OF ORGANIZATION				
NUMBER OF	5.	SOLE VOTING POWER				
SHARES		N/A				
BENEFICIALLY 6. SHARED VO		SHARED VOTING POWER				
OWNED BY		N/A				
EACH	7.	SOLE DISPOSITIVE POWER				
REPORTING N/A		N/A				
PERSON 8.		SHARED DISPOSITIVE POWER				
WITH		N/A				
9. AGGREGA N/A	ATE AMOU	NT BENEFICIALLY OWNED BY	EACH REPORTING PERSON			

1N/A. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES\*

[\_]

11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

12.	TYPE OF F	REPORI	ING PERS	SON*					
	СО								
			*SEE I	INSTRUCTIONS	S BEFORE FI	ILLING OU	Τ!		
CUSI	P No. 1143	340102	2	Schedule	e 13G	P	age 4 of	10 P	ages
1.	NAME OF H			SONS NO. OF ABOV	/E PERSONS	(ENTITIE	S ONLY)		
	BIAM Hold	linas							
2.	CHECK THE	E APPF	OPRIATE	BOX IF A M	EMBER OF A	GROUP *			
									[_] [X]
3.	SEC USE (	ONLY							
4.	CITTERNO				T ON				
4.				)F ORGANIZA	LION				
	Republic	of lr	reland						
NU	MBER OF	5.	SOLE VO	TING POWER					
S	HARES		N/A						
BENE	FICIALLY	6.	SHARED	VOTING POWE	ER				
OWNED BY			N/A						
EACH		7.	SOLE DISPOSITIVE POWER						
REPORTING			N/A						
PERSON		8.	SHARED DISPOSITIVE POWER						
	WITH		N/A						
9.	AGGREGATE	E AMOU	UNT BENEF	ICIALLY OWN	NED BY EACH	H REPORTI	NG PERSC	N	
	N/A								

1N/A. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES\*

[\_]

2.	TYPE OF REPORTING PERSON*						
	CO						
			*SEE INSTRU	JCTIONS BEFORE F	ILLING OUT!		
CUSI	P No. 1143	340102	2 Sc	chedule 13G	Page 5	of 10 Pages	
L.			TING PERSONS TICATION NO. C	OF ABOVE PERSONS	(ENTITIES ONLY	Y)	
	BancIrela	and (T	JS) Holdings,	Inc.			
	CHECK THE	E APPI	ROPRIATE BOX I	IF A MEMBER OF A	GROUP*	(a) [_]	
2.						(b) [X]	
	SEC USE (	ONLY				(b) [X]	
3.		HIP OF	R PLACE OF ORG	GANIZATION		(b) [X]	
3.	CITIZENS	HIP OF	R PLACE OF ORG			(b) [X]	
3. 4. NU	CITIZENS New Hamps	HIP OF				(b) [X]	
3. 4. NU	CITIZENSH New Hamps MBER OF HARES	HIP OF	SOLE VOTING	POWER		(b) [X]	
3. 4. NU SBENE	CITIZENSH New Hamps MBER OF HARES	HIP OF	SOLE VOTING N/A	POWER		(b) [X]	
3. 1. SBENE OW	CITIZENSH New Hamps MBER OF HARES FICIALLY	HIP OF	SOLE VOTING N/A SHARED VOTIN N/A	POWER NG POWER		(b) [X]	
NU SBENE OW	CITIZENSH New Hamps MBER OF HARES FICIALLY NED BY	HIP OF shire 5. 6. 7.	SOLE VOTING N/A SHARED VOTIN N/A	POWER NG POWER		(b) [X]	
3. 1. NU SBENE OW RE	CITIZENSH New Hamps MBER OF HARES FICIALLY NED BY EACH PORTING	HIP OF	SOLE VOTING N/A SHARED VOTIN N/A SOLE DISPOSI N/A	POWER NG POWER		(b) [X]	

1N/A. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES\*

[\_]

11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) N/A 12. TYPE OF REPORTING PERSON\* СО \*SEE INSTRUCTIONS BEFORE FILLING OUT! CUSIP No. 114340102 Schedule 13G Page 6 of 10 Pages 1. NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY) BIAM (US) Inc. 2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP\* (a) [\_] (b) [X] 3. SEC USE ONLY 4. CITIZENSHIP OR PLACE OF ORGANIZATION Delaware NUMBER OF 5. SOLE VOTING POWER SHARES N/A BENEFICIALLY 6. SHARED VOTING POWER OWNED BY N/A EACH 7. SOLE DISPOSITIVE POWER REPORTING N/A PERSON 8. SHARED DISPOSITIVE POWER WITH N/A

9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

1N/A. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES\*

[\_]

11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

N/A

12. TYPE OF REPORTING PERSON\*

CO

\*SEE INSTRUCTIONS BEFORE FILLING OUT!

CUSIP No. 114340102 SCHEDULE 13G

Page 7 of 10 Pages

This Amendment amends in its entirety Schedule 13G previously filed for the month ended December 31, 2007.

Item 1(a). Name of Issuer:

Brooks Automation, Inc.

Item 1(b). Address of Issuer's Principal Executive Offices:

15 Elizabeth Drive Chelmsford, MA N/A1824

#### Item 2.

(a) Name of Person Filing.

This Statement is being filed by and on behalf of Iridian Asset Management LLC ("Iridian"), The Governor and Company of the Bank of Ireland (the "Bank of Ireland"), BIAM Holdings ("Holdings"), BancIreland (US) Holdings, Inc. ("BancIreland"), and BIAM (US) Inc. (collectively, the "Reporting Persons").

(b) Address of Principal Business Office:

The principal business address of Iridian is 276 Post Road West, Westport, CT N/A688N/A-47N/A4.

The principal business address of Bank of Ireland and Holdings is Head Office, Lower Baggot Street, Dublin 2, Ireland.

The principal business address of BancIreland and BIAM (US) Inc. is Liberty Park #15, 282 Route 1N/A1, Amherst, NH N/A311N/A.

(c) Citizenship or Place of Organization:

Iridian is a limited liability company. Bank of Ireland and Holdings are Ireland

corporations. BancIreland is a New Hampshire corporation. BIAM (US) Inc. is a Delaware corporation.

d) Title of Class of Securities:

This Statement relates to the shares of common stock, par value \$.01, of Brooks Automation, Inc.

(e) CUSIP Number: The CUSIP number is 114340102.

CUSIP No. 114340102 SCHEDULE 13G Page 8 of 10 Pages

Item 3. If This Statement is Filed Pursuant to Rule 13d-1(b), or 13d-2(b) or (c), Check Whether the Person Filing is a:

- (a) [\_] Broker or dealer registered under Section 15 of the Exchange Act.
- (b) [\_] Bank as defined in Section 3(a)(6) of the Exchange Act.
- (c) [\_] Insurance company as defined in Section 3(a)(19) of the Exchange Act.
- (d) [\_] Investment company registered under Section 8 of the Investment Company Act.
- (e) [X] An investment adviser in accordance with Rule 13d-1(b)(1)(ii)(E);
- (f) [\_] An employee benefit plan or endowment fund in accordance with Rule 13d-1(b)(1)(ii)(F);
- (g) [X] A parent holding company or control person in accordance with Rule 13d-1(b)(1)(ii)(G);
- (h) [\_] A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act;
- (i) [\_] A church plan that is excluded from the definition of an investment company under Section 3(c)(14) of the Investment Company Act;
- (j) [\_] Group, in accordance with Rule 13d-1(b)(1)(ii)(J).

If this statement is filed pursuant to Rule 13d-1(c), check this box. [\_]

Item 4.	Ownership.		
Not applicab	ole.		
CUSIP No. 11	4340102	SCHEDULE 13G	Page 9 of 10 Pages

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: X

Item 6. Ownership of More Than Five Percent on Behalf of Another Person.

Not Applicable.

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.

Not Applicable

Item 9. Notice of Dissolution of Group.

Not Applicable.

Item 10. Certifications.

By signing below the undersigned certifies that, to the best of its or his 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 and do not have 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 such purpose or effect.

CUSIP No. 114340102

SCHEDULE 13-G

Page 10 of 10 Pages

SIGNATURE.

After reasonable inquiry and to the best of its or his knowledge and belief, we certify that the information set forth in this statement is true, complete and correct.

Date: February 4, 2009

IRIDIAN ASSET MANAGEMENT LLC

By: /s/ Jeffrey M. Elliott Jeffrey M. Elliott Executive Vice President

THE GOVERNOR AND COMPANY OF THE BANK OF IRELAND

9

By: /s/ John Clifford John Clifford Secretary

BIAM HOLDINGS

By: /s/ Hill Wilson Limited Hill Wilson Limited Secretary

BANCIRELAND (US) HOLDINGS, INC.

By: /s/ Jeffrey M. Elliott Jeffrey M. Elliott Agent

BIAM (US) INC.

By: /s/ Jeffrey M. Elliott Jeffrey M. Elliott Agent