UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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Under the Securities Exchange Act of 1934 (Amendment No.)*

NCS Multistage Holdings, Inc.

(Name of Issuer)

Common Stock, par value \$0.01 per share (Title of Class of Securities)

628877102 (CUSIP Number)

Richard Terranova, Advent International 800 Boylston Street, Boston MA 02199 (Name, Address and Telephone Number of Person Authorized to Receive Notices and Communications)

December 31, 2017 (Date of Event which Requires Filing of this Statement)

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

☐ Rule 13d-1(b)
☐ Rule 13d-1(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 disclosures provided in a prior cover page.

The information required on 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).

				1 460 2 01 50	
1.		_	DRTING PERSONS		
	I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)				
	A T	4	innal Composation		
2.			ional Corporation ROPRIATE BOX IF A MEMBER OF A GROUP (see instructions)		
۷.) 🗵	KOFKIATE BOX IF A MEMBER OF A GROOF (see instructions)		
	(-)	,			
3.	SEC USE ON	LY			
4.	CITIZENSHI	P OR	PLACE OF ORGANIZATION		
	Delaware				
	Delaware	5.	SOLE VOTING POWER		
		٥.			
N	UMBER OF		29,568,536		
1	SHARES	6.	SHARED VOTING POWER		
	NEFICIALLY				
C	OWNED BY EACH	7.	0 SOLE DISPOSITIVE POWER		
R	EPORTING	/.	SOLE DISPOSITIVE POWER		
	PERSON		29,568,536		
	WITH	8.	SHARED DISPOSITIVE POWER		
	1		0		
9.	AGGREGAT	E AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	29,568,536				
10.			GGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (see instructions)		
			(44 - 44 - 44 - 44 - 44 - 44 - 44 - 44		
11.	PERCENT O	F CL	ASS REPRESENTED BY AMOUNT IN ROW (9)		
	CE 20/				
12	67.3%	DOD	TING DEDGON (assignaturations)		
12.	I YPE OF RE	PUK.	TING PERSON (see instructions)		
	COTA				

1.			ORTING PERSONS ATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)		
	Advent Inte	rnat	ional GPE VII LLC		
2.	(a) (b)) X	ROPRIATE BOX IF A MEMBER OF A GROUP (see instructions)		
3.	SEC USE ON	LY			
4.	CITIZENSHI	P OR	PLACE OF ORGANIZATION		
	Delaware				
		5.	SOLE VOTING POWER		
N	UMBER OF		29,568,536		
	SHARES	6.	SHARED VOTING POWER		
	NEFICIALLY OWNED BY		0		
R	EACH EPORTING	7.	SOLE DISPOSITIVE POWER		
	PERSON		29,568,536		
	WITH	8.	SHARED DISPOSITIVE POWER		
			0		
9.	AGGREGAT	E AM	IOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	29,568,536				
10.	CHECK IF T	HE A	GGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (see instructions)		
11.	PERCENT O	F CL	ASS REPRESENTED BY AMOUNT IN ROW (9)		
	67.3%				
12.	TYPE OF RE	POR	TING PERSON (see instructions)		
	00				

1.	I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)					
	Advent-NCS Acquisition Limited Partnership					
2.		APP ⊠	ROPRIATE BOX IF A MEMBER OF A GROUP (see instructions)			
	.,					
3.	SEC USE ON	LY				
4.	CITIZENSHII	P OR	PLACE OF ORGANIZATION			
	Delaware					
		5.	SOLE VOTING POWER			
N	UMBER OF		29,568,536			
	SHARES	6.	SHARED VOTING POWER			
	NEFICIALLY OWNED BY		0			
R	EACH EPORTING	7.	SOLE DISPOSITIVE POWER			
	PERSON		29,568,536			
	WITH	8.	SHARED DISPOSITIVE POWER			
			0			
9.	9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON					
	29,568,536					
10.	10. CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (see instructions)					
11.	11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)					
	67.3%					
12.	TYPE OF RE	PORT	TING PERSON (see instructions)			
	PN					

1.			ORTING PERSONS ATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)	
	Advent-NC	S G	PLLC	
2.		APP)⊠	ROPRIATE BOX IF A MEMBER OF A GROUP (see instructions)	
3.	SEC USE ON	ILY		
4.	CITIZENSHI	P OR	PLACE OF ORGANIZATION	
	Delaware			
		5.	SOLE VOTING POWER	
N	UMBER OF		29,568,536	
	SHARES	6.	SHARED VOTING POWER	
	NEFICIALLY OWNED BY		0	
D	EACH EPORTING	7.	SOLE DISPOSITIVE POWER	
15	PERSON		29,568,536	
	WITH	8.	SHARED DISPOSITIVE POWER	
			0	
9.	AGGREGAT	E AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	29,568,536			
10.	CHECK IF T	HE A	GGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (see instructions)	
11.	PERCENT O	F CL	ASS REPRESENTED BY AMOUNT IN ROW (9)	
	67.3%			
12.	TYPE OF RE	POR	TING PERSON (see instructions)	
	00			

	GPE VII GP Limited Partnership				
2.	 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (see instructions) (a) □ (b) ☒ 				
3.	SEC USE ON	LY			
4.			PLACE OF ORGANIZATION		
	Cayman Isl	ands			
		5.	SOLE VOTING POWER		
N	UMBER OF		10,088,786		
	SHARES	6.	SHARED VOTING POWER		
BENEFICIALLY OWNED BY 0			0		
_	EACH	7.	SOLE DISPOSITIVE POWER		
R	EPORTING PERSON				
	WITH		10,088,786		
	***************************************	8.	SHARED DISPOSITIVE POWER		
			0		
9.	AGGREGATI	E AM	IOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	10,088,786				
10.	CHECK IF TI	HE A	GGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (see instructions)		
11.	PERCENT O	F CL	ASS REPRESENTED BY AMOUNT IN ROW (9)		
	23.0%				
12		D∪B1	TING PERSON (see instructions)		
12.	TILL OF ICE	. 010	The Late of the monactions)		
	PN				

1.			ORTING PERSONS		
	I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)				
	GPE VII G	P (D	elaware) Limited Partnership		
2.			ROPRIATE BOX IF A MEMBER OF A GROUP (see instructions)		
	(a) (b)) 🗵			
3.	SEC USE ON	ILY			
4.	CITIZENSHI	P OR	PLACE OF ORGANIZATION		
	Delaware				
		5.	SOLE VOTING POWER		
			18,820,370		
N	UMBER OF SHARES	6.	SHARED VOTING POWER		
BEI	NEFICIALLY				
C	OWNED BY		0		
R	EACH EPORTING	7.	SOLE DISPOSITIVE POWER		
	PERSON		18,820,370		
	WITH	8.	SHARED DISPOSITIVE POWER		
9.	AGGREGAT	E AM	IOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	10 000 070				
10	18,820,370 O. CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (see instructions)				
10.	J. CHECK IF THE AGGREGATE AMOUNT IN KOW (9) EXCLUDES CERTAIN SHAKES (see instructions)				
11.	PERCENT O	F CL.	ASS REPRESENTED BY AMOUNT IN ROW (9)		
	42.9%				
12.		POR	TING PERSON (see instructions)		
	DM				
	PN				

1.	1. NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)					
	Advent Partners GPE VII Limited Partnership					
2.		APP: ⊠	ROPRIATE BOX IF A MEMBER OF A GROUP (see instructions)			
3.	SEC USE ON	LY				
4.	CITIZENSHI	P OR	PLACE OF ORGANIZATION			
	Delaware					
		5.	SOLE VOTING POWER			
N	UMBER OF		11,828			
	SHARES	6.	SHARED VOTING POWER			
	NEFICIALLY OWNED BY		0			
R	EACH EPORTING	7.	SOLE DISPOSITIVE POWER			
	PERSON		11,828			
	WITH	8.	SHARED DISPOSITIVE POWER			
			0			
9.	AGGREGATI	E AM	IOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	11,828					
10.	CHECK IF TI	HE A	GGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (see instructions)			
11.	PERCENT O	F CL	ASS REPRESENTED BY AMOUNT IN ROW (9)			
	0.0%					
12.	TYPE OF RE	PORT	TING PERSON (see instructions)			
	PN					

				0	
1.			ORTING PERSONS		
	I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)				
	Advent Par	tners	s GPE VII-A Limited Partnership		
2.	CHECK THE	APP	ROPRIATE BOX IF A MEMBER OF A GROUP (see instructions)		
	(a) (b)	\boxtimes			
3.	SEC USE ON	LY			
4.	CITIZENSHI	P OR	PLACE OF ORGANIZATION		
	Delaware				
		5.	SOLE VOTING POWER		
			29,570		
N	UMBER OF	6.	SHARED VOTING POWER		
BEN	SHARES NEFICIALLY				
C	WNED BY		0		
R	EACH EPORTING	7.	SOLE DISPOSITIVE POWER		
1,	PERSON		29,570		
	WITH	8.			
9.	AGGREGAT	F. AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
٥.	11001120111				
	29,570				
10.	CHECK IF TI	HE A	GGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (see instructions)		
11.	PERCENT O	F CL	ASS REPRESENTED BY AMOUNT IN ROW (9)		
	0.1%				
12.		PORT	TING PERSON (see instructions)		
	PN				

			J			
1.		REPORTING PERSONS				
	I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)					
		tners GPE VII-B Cayman Limited Partnership				
2.		APPROPRIATE BOX IF A MEMBER OF A GROUP (see instructions)) ⊠				
	(a) 🗆 (b)					
3.	SEC USE ON	ILY				
4.	CITIZENSHI	P OR PLACE OF ORGANIZATION				
	Cayman Isl					
		5. SOLE VOTING POWER				
N	UMBER OF	289,771				
11	SHARES	6. SHARED VOTING POWER				
	NEFICIALLY WNED BY					
C	EACH	7. SOLE DISPOSITIVE POWER				
	EPORTING PERSON	200 774				
	WITH	289,771 8. SHARED DISPOSITIVE POWER				
		6. SHARED DISPOSITIVE POWER				
		0				
9.	AGGREGAT	E AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
	289,771					
10.	CHECK IF T	HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (see instructions)				
11.	PERCENT O	F CLASS REPRESENTED BY AMOUNT IN ROW (9)				
	0.7%					
12.		PORTING PERSON (see instructions)				
	DNI					
	PN					

				Ü	
1.			ORTING PERSONS		
	I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)				
	A decemt Day	t 0 × 0	GPE VII Cayman Limited Partnership		
2.			ROPRIATE BOX IF A MEMBER OF A GROUP (see instructions)		
۷.		ДГГ 🗵	ROPRIATE BOX IF A MEMBER OF A GROOF (see instructions)		
3.	SEC USE ON	LY			
	0				
4.	CITIZENSHI	POR	PLACE OF ORGANIZATION		
	Cayman Isl	ands			
	3	5.	SOLE VOTING POWER		
N	UMBER OF	-	260,204		
DE	SHARES	6.	SHARED VOTING POWER		
	NEFICIALLY DWNED BY				
	EACH	7.	SOLE DISPOSITIVE POWER		
R	EPORTING				
	PERSON WITH		260,204		
	VV 1 1 1 1	8.	SHARED DISPOSITIVE POWER		
			0		
9.	AGGREGAT	E AM	IOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	260,204				
10.	CHECK IF T	HE A	GGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (see instructions)		
11.	PERCENT O	F CL	ASS REPRESENTED BY AMOUNT IN ROW (9)		
	0.60/				
12	0.6%	DOD	TING DEDCON (and instructions)		
12.	IYPE OF KE	PUK.	TING PERSON (see instructions)		
	PN				

1.			ORTING PERSONS		
	I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)				
	A divent Dar	tnorc	GPE VII-A Cayman Limited Partnership		
2.			ROPRIATE BOX IF A MEMBER OF A GROUP (see instructions)		
۷.		/ I II	NOT NUMBER OF A GROOT (See instructions)		
	, , , , ,				
3.	SEC USE ON	LY			
	CITIZENCIII	D OD	PLACE OF ORGANIZATION		
4.	CITIZENSHI	POR	PLACE OF ORGANIZATION		
	Cayman Isl	ands			
	3	5.	SOLE VOTING POWER		
N	UMBER OF		68,007		
DE1	SHARES	6.	SHARED VOTING POWER		
	NEFICIALLY OWNED BY		0		
	EACH	7.	SOLE DISPOSITIVE POWER		
R	EPORTING				
	PERSON WITH		68,007		
	***************************************	8.	SHARED DISPOSITIVE POWER		
			0		
9.	AGGREGAT	E AM	IOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	68,007				
10.	CHECK IF T	HE A	GGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (see instructions)		
11.	PERCENT O	F CL	ASS REPRESENTED BY AMOUNT IN ROW (9)		
	0.00/				
12	0.2%	DO DO	EINC DEDCON ('		
12.	I YPE OF RE	PUK	FING PERSON (see instructions)		
	PN				

1.	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)					
	Advent International GPE VII Limited Partnership					
2.		APP)⊠	ROPRIATE BOX IF A MEMBER OF A GROUP (see instructions)			
3.	SEC USE ON	ILY				
4.	CITIZENSHI	P OR	PLACE OF ORGANIZATION			
	Delaware					
		5.	SOLE VOTING POWER			
N	UMBER OF		3,693,109			
DEI	SHARES NEFICIALLY	6.	SHARED VOTING POWER			
	WNED BY		0			
R	EACH EPORTING	7.	SOLE DISPOSITIVE POWER			
	PERSON		3,693,109			
	WITH	8.	SHARED DISPOSITIVE POWER			
			0			
9.	AGGREGAT	E AM	IOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	3,693,109					
10.	CHECK IF T	HE A	GGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (see instructions)			
11.	PERCENT O	F CL.	ASS REPRESENTED BY AMOUNT IN ROW (9)			
	8.4%					
12.	TYPE OF RE	POR	TING PERSON (see instructions)			
	PN					

1.	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)					
	Advent International GPE VII-A Limited Partnership					
2.	(a) (b)	APPROPRIATE BOX IF A MEMBER OF A GROUP (see instructions) □				
3.	SEC USE ON					
4.	CITIZENSHI	P OR PLACE OF ORGANIZATION				
	Cayman Isl	ands				
		5. SOLE VOTING POWER				
N	UMBER OF	3,418,124 6. SHARED VOTING POWER				
	SHARES NEFICIALLY OWNED BY	0				
R	EACH EPORTING	7. SOLE DISPOSITIVE POWER				
	PERSON WITH	3,418,124				
	WIIH	8. SHARED DISPOSITIVE POWER				
		0				
9.	AGGREGATI	E AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
	3,418,124					
10.	CHECK IF T	HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (see instructions)				
11.	PERCENT O	F CLASS REPRESENTED BY AMOUNT IN ROW (9)				
	7.8%					
12.	TYPE OF RE	PORTING PERSON (see instructions)				
i	PN					

1.	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)					
	Advent International GPE VII-B Limited Partnership					
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (see instructions) (a) □ (b) ⊠					
3.						
4.	CITIZENSHI	P OR	PLACE OF ORGANIZATION			
	Delaware					
		5.	SOLE VOTING POWER			
N	UMBER OF		8,589,659			
	SHARES	6.	SHARED VOTING POWER			
	NEFICIALLY OWNED BY		0			
R	EACH EPORTING	7.	SOLE DISPOSITIVE POWER			
'`	PERSON		8,589,659			
	WITH	8.	SHARED DISPOSITIVE POWER			
			0			
9.	AGGREGAT	E AN	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	8,589,659					
10.	CHECK IF T	HE A	GGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (see instructions)			
11.	PERCENT O	F CL.	ASS REPRESENTED BY AMOUNT IN ROW (9)			
	19.6%					
12.	TYPE OF RE	POR	TING PERSON (see instructions)			
	PN					

			Ü				
1.							
	I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)						
	Advent Inte	Advent International GPE VII-C Limited Partnership					
2.			ROPRIATE BOX IF A MEMBER OF A GROUP (see instructions)				
	(a) \Box (b)	\boxtimes					
3.	SEC USE ON	LY					
4.	CITIZENSHI	P OR	PLACE OF ORGANIZATION				
	Delaware						
		5.	SOLE VOTING POWER				
			2,729,175				
N	UMBER OF SHARES	6.	SHARED VOTING POWER				
BEN	NEFICIALLY						
C	WNED BY		0				
R	EACH EPORTING	7.	SOLE DISPOSITIVE POWER				
	PERSON		2,729,175				
	WITH	8.	SHARED DISPOSITIVE POWER				
			0				
9.	AGGREGATI	E AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
	2,729,175						
10.		HE A	GGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (see instructions)				
44							
11.	PERCENT O	r CL/	ASS REPRESENTED BY AMOUNT IN ROW (9)				
	6.2%						
12.		PORT	TING PERSON (see instructions)	_			
	DNI						
	PN	N					

1.			ORTING PERSONS				
	I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)						
	Advent Inte	Advent International GPE VII-D Limited Partnership					
2.			ROPRIATE BOX IF A MEMBER OF A GROUP (see instructions)				
	(a) (b)	\boxtimes					
3.	SEC USE ON	LY					
4.	CITIZENSHI	P OR	PLACE OF ORGANIZATION				
	Delaware						
		5.	SOLE VOTING POWER				
	IN OPEN OF		2,211,725				
IN	UMBER OF SHARES	6.	SHARED VOTING POWER				
	NEFICIALLY		0				
	OWNED BY EACH	7.	SOLE DISPOSITIVE POWER				
R	EPORTING						
	PERSON WITH		2,211,725				
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	8.	SHARED DISPOSITIVE POWER				
			0				
9.	AGGREGAT	E AM	IOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
	2,211,725						
10.	CHECK IF T	HE A	GGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (see instructions)				
11.	PERCENT O	F CL	ASS REPRESENTED BY AMOUNT IN ROW (9)				
	5.0%						
12.		PORT	TING PERSON (see instructions)				
	PN						

1.	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)					
	Advent International GPE VII-E Limited Partnership					
2.		APP: ⊠	ROPRIATE BOX IF A MEMBER OF A GROUP (see instructions)			
3.	SEC USE ON	LY				
4.	CITIZENSHI	P OR	PLACE OF ORGANIZATION			
	Cayman Isl	ands				
		5.	SOLE VOTING POWER			
N	UMBER OF		6,188,694			
	SHARES	6.	SHARED VOTING POWER			
	NEFICIALLY OWNED BY		0			
R	EACH EPORTING	7.	SOLE DISPOSITIVE POWER			
	PERSON		6,188,694			
	WITH	8.	SHARED DISPOSITIVE POWER			
			0			
9.	AGGREGATI	E AM	IOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	6,188,694					
10.	<u> </u>	HE A	GGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (see instructions)			
11.	. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)					
	1 / 10/					
	14.1%					
12.	TYPE OF RE	PORT	TING PERSON (see instructions)			
	PN					

1.	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)							
	Advent Inte	Advent International GPE VII-F Limited Partnership						
2.	(a) (b)) 🗵	ROPRIATE BOX IF A MEMBER OF A GROUP (see instructions)					
3.	SEC USE ON	ILY						
4.	CITIZENSHI	P OR	PLACE OF ORGANIZATION					
	Delaware							
		5.	SOLE VOTING POWER					
N	UMBER OF		798,351					
	SHARES	6.	SHARED VOTING POWER					
	NEFICIALLY DWNED BY		0					
ь	EACH EPORTING	7.	SOLE DISPOSITIVE POWER					
IN	PERSON		798,351					
	WITH	8.	SHARED DISPOSITIVE POWER					
			0					
9.	AGGREGAT	E AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON					
	798,351							
10.	-	HE A	GGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (see instructions)					
11.	PERCENT O	F CL	ASS REPRESENTED BY AMOUNT IN ROW (9)					
	1.8%							
12.	TYPE OF RE	POR	TING PERSON (see instructions)					
	PN							

1.	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)						
	Advent Inte	Advent International GPE VII-G Limited Partnership					
2.	(a) (b)) 🗵	ROPRIATE BOX IF A MEMBER OF A GROUP (see instructions)				
3.	SEC USE ON	ILY					
4.	CITIZENSHI	P OR	PLACE OF ORGANIZATION				
	Delaware						
		5.	SOLE VOTING POWER				
N	UMBER OF		798,351				
	SHARES	6.	SHARED VOTING POWER				
	NEFICIALLY DWNED BY		0				
D	EACH EPORTING	7.	SOLE DISPOSITIVE POWER				
10	PERSON		798,351				
	WITH	8.	SHARED DISPOSITIVE POWER				
			0				
9.	AGGREGAT	E AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
	798,351						
10.	CHECK IF T	HE A	GGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (see instructions)				
11.	PERCENT O	F CL	ASS REPRESENTED BY AMOUNT IN ROW (9)				
	1.8%						
12.	TYPE OF RE	POR	TING PERSON (see instructions)				
	PN						

			9				
1.	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)						
	Advent Inte	Advent International GPE VII-H Limited Partnership					
2.	(a) (b)) X	PROPRIATE BOX IF A MEMBER OF A GROUP (see instructions)				
3.	SEC USE ON	LY					
4.	CITIZENSHI	P OR	R PLACE OF ORGANIZATION				
	Cayman Isl	ands					
		5.	SOLE VOTING POWER				
N	UMBER OF		481,968				
SHARES		6.	SHARED VOTING POWER				
	NEFICIALLY OWNED BY		0				
R	EACH EPORTING	7.	SOLE DISPOSITIVE POWER				
	PERSON WITH		481,968				
	WIIH	8.	SHARED DISPOSITIVE POWER				
			0				
9.	AGGREGAT	E AM	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
	481,968						
10.	CHECK IF T	HE A	AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (see instructions)				
11.	PERCENT O	F CL	ASS REPRESENTED BY AMOUNT IN ROW (9)				
	1.1%						
12.	TYPE OF RE	POR	TING PERSON (see instructions)				
	PN						

Item 1.

(a) Name of Issuer

NCS Multistage Holdings, Inc.

(b) Address of Issuer's Principal Executive Offices

19450 State Highway 249, Suite 200 Houston, Texas (281) 453-2222

Item 2.

- (a) Name of Person Filing
- (b) Address of Principal Business Office
- (c) Citizenship

This statement is being filed on behalf of the following Reporting Persons:

Advent International Corporation, a Delaware corporation;

Advent International GPE VII LLC, a Delaware LLC;

Advent-NCS Acquisition Limited Partnership, a Delaware limited partnership;

Advent-NCS GP LLC, a Delaware LLC;

GPE VII GP Limited Partnership, a Cayman Islands limited partnership

GPE VII GP (Delaware) Limited Partnership, a Delaware limited partnership;

Advent Partners GPE VII Limited Partnership, a Delaware limited partnership;

Advent Partners GPE VII-A Limited Partnership, a Delaware limited partnership;

Advent Partners GPE VII-B Cayman Limited Partnership, a Cayman Islands limited partnership;

Advent Partners GPE VII Cayman Limited Partnership, a Cayman Islands limited partnership;

Advent Partners GPE VII-A Cayman Limited Partnership, a Cayman Islands limited partnership;

Advent International GPE VII Limited Partnership, a Delaware limited partnership;

Advent International GPE VII-A Limited Partnership, a Cayman Islands limited partnership;

Advent International GPE VII-B Limited Partnership, a Delaware limited partnership;

Advent International GPE VII-C Limited Partnership, a Delaware limited partnership;

Advent International GPE VII-D Limited Partnership, a Delaware limited partnership;

Advent International GPE VII-E Limited Partnership, a Cayman Islands limited partnership;

Advent International GPE VII-F Limited Partnership, a Delaware limited partnership;

Advent International GPE VII-G Limited Partnership, a Delaware limited partnership; and

Advent International GPE VII-H Limited Partnership, a Cayman Islands limited partnership.

Advent International Corporation is the manager of Advent International GPE VII LLC, which in turn is the general partner of GPE VII GP Limited Partnership, GPE VII GP (Delaware) Limited Partnership, Advent Partners GPE VII Limited Partnership, Advent Partners GPE VII-A Limited Partnership, Advent Partners GPE VII-B Limited Partnership, Advent Partners GPE VII Cayman Limited Partnership, and Advent Partners GPE VII-A Cayman Limited Partnership. GPE VII GP Limited Partnership is the general partner of Advent International GPE VII-A Limited Partnership, and

Advent International GPE VII-H Limited Partnership. GPE VI GP (Delaware) Limited Partnership is the general partner of Advent International GPE VII Limited Partnership, Advent International GPE VII-C Limited Partnership, Advent International GPE VII-D Limited Partnership, Advent International GPE VII-D Limited Partnership, Advent International GPE VII-G Limited Partnership. Advent International GPE VII-G Limited Partnership. Advent Partners GPE VII Limited Partnership, Advent Partners GPE VII-A Limited Partnership, Advent Partners GPE VII-B Cayman Limited Partnership, Advent Partners GPE VII-A Cayman Limited Partnership, Advent International GPE VII-A Limited Partnership, Advent International GPE VII-D Limited Partnership, and Advent International GPE VII-H Limited Partnership, are members of Advent-NCS GP LLC.

The principal business address of each Reporting Person is c/o Advent International Corporation, 800 Boylston Street, Boston, MA 02199

(d) Title of Class of Securities

Common stock, par value \$0.01 per share

(e) CUSIP Number

628877102

Item 3. If this statement is filed pursuant to §§240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:

Not applicable

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.

	Number of Shares	0.1.77.	Shared	Sole	Shared	Percentage of
	Beneficially Owned	Sole Voting Power	Voting Power	Dispositive Power	Dispositive Power	Common Stock Outstanding
Advent International Corporation	29,568,536	29,568,536		29,568,536		67.3%
Advent International GPE VII LLC	29,568,536	29,568,536	_	29,568,536	_	67.3%
Advent-NCS Acquisition Limited Partnership	29,568,536	29,568,536	_	29,568,536	_	67.3%
Advent-NCS GP LLC	29,568,536	29,568,536	_	29,568,536	_	67.3%
GPE VII GP Limited Partnership	10,088,786	10,088,786	_	10,088,786	_	23.0%
GPE VII GP (Delaware) Limited Partnership	18,820,370	18,820,370	_	18,820,370	_	42.9%
Advent Partners GPE VII Limited Partnership	11,828	11,828	_	11,828	_	0.0%
Advent Partners GPE VII-A Limited Partnership	29,570	29,570	_	29,570	_	0.1%
Advent Partners GPE VII-B Cayman Limited Partnership	289,771	289,771	_	289,771	_	0.7%
Advent Partners GPE VII Cayman Limited Partnership	260,204	260,204	_	260,204	_	0.6%
Advent Partners GPE VII-A Cayman Limited Partnership	68,007	68,007	_	68,007	_	0.2%
Advent International GPE VII Limited Partnership	3,693,109	3,693,109	_	3,693,109	_	8.4%
Advent International GPE VII-A Limited Partnership	3,418,124	3,418,124	_	3,418,124	_	7.8%
Advent International GPE VII-B Limited Partnership	8,589,659	8,589,659	_	8,589,659	_	19.6%
Advent International GPE VII-C Limited Partnership	2,729,175	2,729,175	_	2,729,175	_	6.2%
Advent International GPE VII-D Limited Partnership	2,211,725	2,211,725	_	2,211,725	_	5.0%
Advent International GPE VII-E Limited Partnership	6,188,694	6,188,694	_	6,188,694	_	14.1%
Advent International GPE VII-F Limited Partnership	798,351	798,351	_	798,351	_	1.8%
Advent International GPE VII-G Limited Partnership	798,351	798,351	_	798,351	_	1.8%
Advent International GPE VII-H Limited Partnership	481,968	481,968	_	481,968	_	1.1%

Item 5. Ownership of Five Percent or Less of a Class.

Not applicable

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.

See Exhibit 2

Item 9. Notice of Dissolution of Group.

Not applicable

Item 10. Certification.

Not applicable

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 12, 2018

Date

Advent International GPE VII-E Limited Partnership Advent International GPE VII-H Limited Partnership By: GPE VII GP Limited Partnership, General Partner By: Advent International GPE VII LLC, General Partner By: Advent International Corporation, Manager

Advent International GPE VII-A Limited Partnership

By: Richard Terranova, Authorized Signatory

/s/ Richard Terranova

Signature

Advent International GPE VII Limited Partnership Advent International GPE VII-B Limited Partnership Advent International GPE VII-C Limited Partnership Advent International GPE VII-D Limited Partnership Advent International GPE VII-F Limited Partnership Advent International GPE VII-G Limited Partnership By: GPE VII GP (Delaware) Limited Partnership, General Partner

By: Advent International GPE VII LLC, General Partner By: Advent International Corporation, Manager

By: Richard Terranova, Authorized Signatory

/s/ Richard Terranova

Signature

Advent Partners GPE VII Limited Partnership Advent Partners GPE VII-A Limited Partnership Advent Partners GPE VII-B Cayman Limited Partnership Advent Partners GPE VII Cayman Limited Partnership Advent Partners GPE VII-A Cayman Limited Partnership By: Advent International GPE VII LLC, General Partner By: Advent International Corporation, Manager By: Richard Terranova, Authorized Signatory

/s/ Richard Terranova

Signature

GPE VII GP Limited Partnership

By: Advent International GPE VII LLC, General Partner

By: Advent International Corporation, Manager By: Richard Terranova, Authorized Signatory

/s/ Richard Terranova

GPE VII GP (Delaware) Limited Partnership

By: Advent International GPE VII LLC, General Partner

By: Advent International Corporation, Manager

By: Richard Terranova, Authorized Signatory

/s/ Richard Terranova

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Signature

By: Advent International GPE VII LLC, General Partner

By: Advent International Corporation, Manager

By: Richard Terranova, Authorized Signatory

/s/ Richard Terranova

Signature

Advent International Corporation

By: Richard Terranova, Authorized Signatory

/s/ Richard Terranova

Signature

Advent-NCS Acquisition Limited Partnership By: Advent-NCS GP LLC, General Partner

By: Richard Terranova, Authorized Signatory

/s/ Richard Terranova Signature

Advent-NCS GP LLC

By: Richard Terranova, Authorized Signatory

/s/ Richard Terranova

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EXHIBIT INDEX

Exhibit 1. Joint Filing Agreement as required by Rule 13d-1(k)(1) under the Securities Exchange Act of 1934, as amended.

Exhibit 2. List of Members of a Group

JOINT FILING AGREEMENT PURSUANT TO RULE 13d-1(k)(1)

13G

The undersigned acknowledge and agree that the foregoing statement on Schedule 13G is filed on behalf of each of the undersigned and that all subsequent amendments to this statement on Schedule 13G shall be filed on behalf of each of the undersigned without the necessity of filing additional joint filing statements. The undersigned acknowledge that each shall be responsible for the timely filing of such amendments, and for the completeness and accuracy of the information concerning him, her or it contained herein, but shall not be responsible for the completeness and accuracy of the information concerning the other entities or persons, except to the extent that he, she or it knows or has reason to believe that such information is inaccurate.

February 12, 2018

Date

Advent International GPE VII-A Limited Partnership

Advent International GPE VII-E Limited Partnership

Advent International GPE VII-H Limited Partnership

By: GPE VII GP Limited Partnership, General Partner

By: Advent International GPE VII LLC, General Partner

By: Advent International Corporation, Manager

By: Richard Terranova, Authorized Signatory

/s/ Richard Terranova

Signature

Advent International GPE VII Limited Partnership

Advent International GPE VII-B Limited Partnership

Advent International GPE VII-C Limited Partnership

Advent International GPE VII-D Limited Partnership

Advent International GPE VII-F Limited Partnership

Advent International GPE VII-G Limited Partnership

By: GPE VII GP (Delaware) Limited Partnership, General Partner

By: Advent International GPE VII LLC, General Partner

By: Advent International Corporation, Manager

By: Richard Terranova, Authorized Signatory

/s/ Richard Terranova

Signature

Advent Partners GPE VII Limited Partnership

Advent Partners GPE VII-A Limited Partnership

Advent Partners GPE VII-B Cayman Limited Partnership

Advent Partners GPE VII Cayman Limited Partnership

Advent Partners GPE VII-A Cayman Limited Partnership

By: Advent International GPE VII LLC, General Partner

By: Advent International Corporation, Manager

By: Richard Terranova, Authorized Signatory

/s/ Richard Terranova

GPE VII GP Limited Partnership

By: Advent International GPE VII LLC, General Partner

By: Advent International Corporation, Manager By: Richard Terranova, Authorized Signatory

/s/ Richard Terranova

Signature

GPE VII GP (Delaware) Limited Partnership

By: Advent International GPE VII LLC, General Partner

By: Advent International Corporation, Manager

By: Richard Terranova, Authorized Signatory

/s/ Richard Terranova

Signature

By: Advent International GPE VII LLC, General Partner

By: Advent International Corporation, Manager

By: Richard Terranova, Authorized Signatory

/s/ Richard Terranova

Signature

Advent International Corporation

By: Richard Terranova, Authorized Signatory

/s/ Richard Terranova

Signature

Advent-NCS Acquisition Limited Partnership By: Advent-NCS GP LLC, General Partner

By: Richard Terranova, Authorized Signatory

/s/ Richard Terranova

Signature

Advent-NCS GP LLC

By: Richard Terranova, Authorized Signatory

/s/ Richard Terranova

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Funds and Entities Associated with Advent International Corporation

Advent International Corporation

Advent International GPE VII LLC

Advent-NCS Acquisition Limited Partnership

Advent-NCS GP LLC

GPE VII GP Limited Partnership

GPE VII GP (Delaware) Limited Partnership

Advent Partners GPE VII Limited Partnership

Advent Partners GPE VII-A Limited Partnership

Advent Partners GPE VII-B Cayman Limited Partnership

Advent Partners GPE VII Cayman Limited Partnership

Advent Partners GPE VII-A Cayman Limited Partnership

Advent International GPE VII Limited Partnership

Advent International GPE VII-A Limited Partnership

Advent International GPE VII-B Limited Partnership

Advent International GPE VII-C Limited Partnership

Advent International GPE VII-D Limited Partnership

Advent International GPE VII-E Limited Partnership Advent International GPE VII-F Limited Partnership

Advent International GPE VII-G Limited Partnership

Advent International GPE VII-H Limited Partnership