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

SCHEDULE 13G

Under the Securities Exchange Act of 1934

D	AWSON GEOPHYSICAL COMPANY
(Name of	Issuer)
Common Sto	ock, \$0.01 par value
(Title of Class of	of Securities)
2:	39360100
(CUSIP Nur A	 mber) pril 26, 2016
(Date of Event Which Requ	ires Filing of this Statement)
Check the appropriate box to designate the Schedule is filed:	e rule pursuant to which this
[X] Rule 13d-1(b)	
[_] Rule 13d-1(c)	
[_] Rule 13d-1(d)	
*The remainder of this cover page shall be initial filing on this form with respect and for any subsequent amendment contain the disclosures provided in a prior cove	to the subject class of securities, ing information which would alter
The information required in the remainder deemed to be "filed" for the purpose of Society Act of 1934 ("Act") or otherwise subject of the Act but shall be subject to all otherwise the Notes).	ection 18 of the Securities Exchange to the liabilities of that section
	3G Page 2 of 8 Pages
(1) NAMES OF REPORTING PERSONS. I.R.S. IDENTIFICATION NOS. OF ABOVE	
Renaissance Technologies LLC 20	6-0385758
(2) CHECK THE APPROPRIATE BOX IF A MEMBER (a) [_] (b) [_]	R OF A GROUP (SEE INSTRUCTIONS):
(3) SEC USE ONLY	
(A) CITIZENCUID OD DLACE OF ODCANIZATION	
(4) CITIZENSHIP OR PLACE OF ORGANIZATION	
Delaware	
	(5) SOLE VOTING POWER
NUMBER OF SHARES BENEFICIALLY OWNED	1,424,642
BY EACH REPORTING PERSON WITH:	(6) SHARED VOTING POWER
	0
	(7) SOLE DISPOSITIVE POWER
	1,424,642

		(8) SHARED DISPOSITIVE POWER
		0
9) AG	GREGATE AMOUNT BENEFICIALLY OWNED BY EAC	H REPORTING PERSON
	1,424,642	
	ECK BOX IF THE AGGREGATE AMOUNT IN ROW (SEE INSTRUCTIONS)	9) EXCLUDES CERTAIN SHARES
11) P	ERCENT OF CLASS REPRESENTED BY AMOUNT IN	
	6.59 %	
12) TY	PE OF REPORTING PERSON (SEE INSTRUCTIONS IA)
	Page 2 of 8 pag	es ====================================
	Page 3 of 8 pag	
CUSIP	NO. 239360100 13G	Page 3 of 8 P
	MES OF REPORTING PERSONS. .R.S. IDENTIFICATION NOS. OF ABOVE PERSO	NS (ENTITIES ONLY).
RE	NAISSANCE TECHNOLOGIES HOLDINGS CORPORAT	ION 13-3127734
(ECK THE APPROPRIATE BOX IF A MEMBER OF A a) $[_]$ b) $[_]$	GROUP (SEE INSTRUCTIONS)
	C USE ONLY	
(4) CIT	IZENSHIP OR PLACE OF ORGANIZATION	
D	elaware	
		(5) SOLE VOTING POWER
NUMBER OF SHARES BENEFICIALLY OWNED	NEFICIALLY OWNED	1,424,642
	EACH REPORTING RSON WITH:	(6) SHARED VOTING POWER
		0
		(7) SOLE DISPOSITIVE POWER
		1,424,642
		(8) SHARED DISPOSITIVE POWER
		0
9) AG	GREGATE AMOUNT BENEFICIALLY OWNED BY EAC	H REPORTING PERSON
	1,424,642	
	ECK BOX IF THE AGGREGATE AMOUNT IN ROW (SEE INSTRUCTIONS) [_]	9) EXCLUDES CERTAIN SHARES
 (11) P	ERCENT OF CLASS REPRESENTED BY AMOUNT IN	ROW (9)
•	6.59 %	•
(12) TY	PE OF REPORTING PERSON (SEE INSTRUCTIONS HC)
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	rage 5 cr 6 pag	

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Item 1.

(a) Name of Issuer

DAWSON GEOPHYSICAL COMPANY

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

508 West Wall, Suite 800, Midland, Texas 79701

Item 2.

(a) Name of Person Filing:

This Schedule 13G is being filed by Renaissance Technologies LLC ("RTC") and Renaissance Technologies Holdings Corporation ("RTHC").

(b) Address of Principal Business Office or, if none, Residence.

The principal business address of the reporting persons is:

800 Third Avenue New York, New York 10022

(c) Citizenship.

RTC is a Delaware limited liability company, and RTHC is a Delaware corporation.

(d) Title of Class of Securities.

Common Stock, \$0.01 par value

(e) CUSIP Number.

239360100

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Thom 2. If this statement is filed pursuant to Pulo 12d 1(h) or 12 d 2(h)

Item 3. If this statement is filed pursuant to Rule 13d-1(b) or 13-d-2(b) or (c), check whether the person filing is a:

- (a) [_] Broker or dealer registered under section 15 of the Act.
- (b) [_] Bank as defined in section 3(a)(6) of the Act.
- (c) [_] Insurance Company as defined in section 3(a)(19) of the Act.
- (d) [_] Investment Company registered under section 8 of the Investment Company Act.
- (e) [x] Investment Adviser in accordance with Sec.240.13d-1(b)(1)(ii)(E).
- (g) [_] Parent holding company, in accordance with Sec.240.13d-1(b)(1)(ii)(G).
- (h) [_] A savings associations 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 of 1940.
- (j) [_] Group, in accordance with Sec.240.13d-1(b)(1)(ii)(J).

Item 4. Ownership.

(a) Amount beneficially owned.

RTC: 1,424,642 shares

RTHC: 1,424,642 shares, comprising the shares beneficially owned by RTHC, because of RTHC's majority ownership of RTC.

(b) Percent of Class.

RTC: 6.59 % RTHC: 6.59 %

- (c) Number of shares as to which the person has:
 - (i) sole power to vote or to direct the vote:

RTC: 1,424,642 RTHC: 1,424,642 (ii) Shared power to vote or to direct the vote:

(iii) sole power to dispose or to direct the disposition of:

RTC: 1,424,642 RTHC: 1,424,642

(iv) Shared power to dispose or to direct the disposition of:

RTC: 0 RTHC: 0

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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: [_]

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

Certain funds and accounts managed by RTC have the right to receive dividends and proceeds from the sale of the securities which are the subject of this report.

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 a Group.

Not applicable

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Item 10. Certification

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and not acquired and are not held for the purpose of or with 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 that purpose or effect.

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.

Date: February 14, 2017

Renaissance Technologies LLC

By: Mark Silber Executive Vice President

Renaissance Technologies Holdings Corporation

By: Mark Silber Vice President

Attention: Intentional misstatements or omissions of fact constitute Federal criminal violations (See 18 U.S.C. 1001).

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EXHIBIT 99.1

AGREEMENT REGARDING JOINT FILING

UNDER RULE 13D-1(K) OF THE EXCHANGE ACT

In accordance with Rule 13d-1(k) under the Securities Exchange Act of 1934, as amended, each of the undersigned agrees to the filing on behalf of each of a Statement on Schedule 13G, and all amendments thereto, with respect to the shares of Common Stock, \$0.01 par value of DAWSON GEOPHYSICAL COMPANY.

Date: February 14, 2017

Renaissance Technologies LLC

By: Mark Silber

Executive Vice President

Renaissance Technologies Holdings Corporation

By: Mark Silber Vice President

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