

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549**

FORM S-1/A

(Amendment No. 1)
REGISTRATION STATEMENT UNDER THE SECURITIES ACT OF 1933

IntelGenx Technologies Corp.

(Exact Name of Registrant as Specified in its Charter)

Delaware

*(State or other jurisdiction of
incorporation or organization)*

2834

*(Primary Standard Industrial
Classification Code Number)*

87-0638336

*(I.R.S. Employer
Identification Number)*

**6420 Abrams, Ville Saint Laurent
Quebec, H4S 1Y2 Canada
(514) 331-7440**

(Address, including zip code, and telephone number, including area code, of registrant's principal executive offices)

**Horst G. Zerbe
Chief Executive Officer
IntelGenx Technologies Corp.
6420 Abrams, Ville Saint Laurent
Quebec, H4S 1Y2 Canada
(514) 331-7440**

(Name, address, including zip code, and telephone number, including area code, of agent for service)

With Copies of Communications to:

**Richard Raymer
Dorsey & Whitney LLP
TD Canada Trust Tower
Brookfield Place, 161 Bay Street, Suite 4310
Toronto, Ontario M5J 2S1 Canada
Tel: (416) 367-7388**

Approximate Date of Commencement of Proposed Sale to the Public: As soon as possible after this Registration Statement becomes effective.

If any of the securities being registered on this Form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, as amended (the "Securities Act"), check the following box. []

If this Form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, please check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering. []

If this Form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering. []

If this Form is a post-effective amendment filed pursuant to Rule 462(d) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering. []

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer or a smaller reporting company. See the definitions of "large accelerated filer," "accelerated filer" "smaller reporting company" and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer []

Accelerated filer []

Non-accelerated filer []

(Do not check if a smaller reporting company)

Smaller reporting company [X]

Emerging growth company []

CALCULATION OF REGISTRATION FEE

Title of Each Class of Securities to be Registered	Amount to be Registered ⁽¹⁾	Proposed Offering Price Per Unit	Proposed Maximum Aggregate Offering Price	Amount of Registration Fee
Common Stock, \$0.00001 par value, to be offered for resale by the Selling Securityholders issued in connection with the Offering (as defined herein).	2,540,800	\$0.77 ⁽²⁾	\$1,956,416	\$243.57
Notes (as defined herein), convertible at \$.80 per share, issued in connection with the Offering.	\$1,600,000		\$1,600,000 ⁽³⁾	\$199.20
Common Stock, \$0.00001 par value, to be offered for resale by the Selling Securityholders and issuable upon the conversion of Notes issued in connection with the Offering.	2,000,000	(4)	(4)	(4)
Warrants (as defined herein), exercisable at \$.80 per share, issued in connection with the Offering.	2,704,075	(5)	(5)	(5)
Common Stock, \$0.00001 par value, to be offered for resale by the Selling Securityholders and issuable upon the exercise of Warrants issued in connection with the Offering.	2,704,075	\$0.80 ⁽⁶⁾	\$2,163,260 ⁽⁶⁾	\$269.33
Common Stock, \$0.00001 par value, in lieu of monetary interest payments on the Notes. ⁽⁷⁾	360,000 ⁽⁸⁾		\$288,000 ⁽⁹⁾	\$35.86
Total				\$747.96 ⁽¹⁰⁾

- (1) Pursuant to Rule 416 under the Securities Act of 1933 (the “Securities Act”), the common shares being registered hereunder include such indeterminate number of shares as may be issuable as a result of stock splits, stock dividends or similar transactions.
- (2) Estimated solely for the purpose of calculating the registration fee pursuant to Rule 457(c) of the Securities Act, based upon the average of the high and low sales prices of the Registrant’s common stock as reported on the OTCQB on July 5, 2018.
- (3) In accordance with Rule 457(i) under the Securities Act, this registration statement also registers the shares of our common stock that are initially issuable upon conversion of the Notes registered hereby. No separate consideration will be paid for these shares of common stock and therefore no additional registration fee is required pursuant to Rule 457(i).
- (4) No separate fee due in accordance with Rule 457(i) under the Securities Act.
- (5) No fee pursuant to Rule 457(g).
- (6) Calculated using the exercise price of the Warrants and Placement Agent Warrants pursuant to Rule 457(g).
- (7) Represents the maximum aggregate offering price of shares of common stock that may be issued in lieu of monetary interest payments, in accordance with Rule 457(o).
- (8) The number of shares of our common stock issuable upon such conversion is estimated for purposes of this fee table to be 360,000 based on (i) the maximum aggregate interest amount due under the Notes and (ii) a conversion price of \$0.80 per share.
- (9) Equals the aggregate interest amount due under the Notes.
- (10) Previously paid.

The registrant hereby amends this Registration Statement on such date or dates as may be necessary to delay its effective date until the registrant shall file a further amendment which specifically states that this Registration Statement shall thereafter become effective in accordance with Section 8(a) of the Securities Act of 1933 or until the Registration Statement shall become effective on such date as the Commission, acting pursuant to said Section 8(a), may determine.

EXPLANATORY NOTE

This Amendment No. 1 is being filed for the sole purpose of filing Exhibit 5.1 to this Registration Statement on Form S-1 and updating Item 13.

PART II INFORMATION NOT REQUIRED IN PROSPECTUS

Item 13. Other Expenses of Issuance and Distribution

The following table sets forth the costs and expenses payable by us in connection with the distribution of the securities being registered. All of the amounts shown are estimates, except the SEC registration fee. We have agreed to bear all expenses (other than underwriting discounts and selling commissions) in connection with the registration and sale of the securities offered by the selling securityholders.

SEC registration fee	\$	\$747.96
Legal fees and expenses	\$	\$20,000
Accountants' fees and expenses	\$	\$5,000
Miscellaneous expenses	\$	\$1,000
Total:	\$	26,747.96

Item 14. Indemnification of Directors and Officers

Section 145 of the Delaware General Corporation Law (the "DGCL"), provides that a corporation may indemnify any person who was or is a party or is threatened to be made a party to any threatened, pending or completed action, suit or proceeding, whether civil, criminal, administrative or investigative (other than an action by or in the right of the corporation) by reason of the fact that he is or was a director, officer, employee or agent of the corporation, or is or was serving at the request of the corporation as a director, officer, employee or agent of another corporation, partnership, joint venture, trust or other enterprise, against expenses (including attorneys' fees), judgments, fines and amounts paid in settlement actually and reasonably incurred by him in connection with such action, suit or proceeding if he acted in good faith and in a manner he reasonably believed to be in or not opposed to the best interests of the corporation, and, with respect to any criminal action or proceeding, had no reasonable cause to believe his conduct was unlawful. Section 145 further provides that a corporation similarly may indemnify any such person serving in any such capacity who was or is a party or is threatened to be made a party to any threatened, pending or completed action or suit by or in the right of the corporation to procure a judgment in its favor, against expenses (including attorneys' fees) actually and reasonably incurred in connection with the defense or settlement of such action or suit if he acted in good faith and in a manner he reasonably believed to be in or not opposed to the best interests of the corporation and except that no indemnification shall be made in respect of any claim, issue or matter as to which such person shall have been adjudged to be liable to the corporation unless and only to the extent that the Delaware Court of Chancery or such other court in which such action or suit was brought shall determine upon application that, despite the adjudication of liability but in view of all the circumstances of the case, such person is fairly and reasonably entitled to indemnity for such expenses which the Court of Chancery or such other court shall deem proper.

We have agreed to indemnify our officers and directors to the fullest extent permitted by law. Such indemnification is intended to supplement our officers' and directors' liability insurance.

Our certificate of incorporation provides that no director shall be personally liable to the corporation or its stockholders for monetary damages for any breach of fiduciary duty by such director as a director. A director shall be liable to the extent provided by applicable law, however, (a) for breach of the director's duty of loyalty to the corporation or its stockholders, (b) for acts or omissions not in good faith or which involve intentional misconduct or a knowing violation of law, (c) pursuant to Section 174 of the DGCL, or (d) for any transaction from which the director derived an improper personal benefit.

To the extent permitted by applicable law, we are also authorized to provide indemnification of (and advancement of expenses to) such agents (and any other persons to which Delaware law permits us to provide indemnification) through provisions in our bylaws, agreements with such agents or other persons, voting of security holders or disinterested directors or otherwise, in excess of the indemnification and advancement otherwise permitted by Section 145 of the DGCL, subject only to limits created by applicable Delaware law (statutory or non-statutory), with respect to actions for breach of duty to us, our security holders and others.

Any repeal or modification of any of the foregoing provisions of the indemnification provisions in our certificate of incorporation or bylaws shall be prospective and shall not adversely affect any right or protection of a director, officer, agent, or other person existing at the time of, or increase the liability of any director of our company with respect to any acts or omissions of such director occurring prior to, such repeal or modification.

Insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors, officers or controlling persons of our company, pursuant to the foregoing provisions, or otherwise, we have been advised that, in the opinion of the Securities and Exchange Commission, such indemnification is against public policy as expressed in the Securities Act, and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by us of expenses incurred or paid by a director, officer or controlling person of our company in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered hereunder, we will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by us is against public policy as expressed in the Securities Act and will be governed by the final adjudication of such issue.

Recent Sales of Unregistered Securities

On May 8, 2018 the Company sold to accredited investors 320 units, each consisting of (i) 7,940 shares of the Company's common stock, (ii) a U.S.\$5,000 convertible 6% note and (iii) 7,690 warrants, for gross proceeds of U.S.\$3,200,000. Cantone Research, Inc. ("Cantone") and Leede Jones Gable Inc. acted as placement agents (the "Placement Agents"). As part of their commission, the Placement Agents received an aggregate amount of 243,275 warrants.

The Company's issuance of the foregoing securities was made in reliance upon the exemption from registration of the Securities Act provided by Rule 506(d) of Regulation D for sales in the United States and pursuant to Regulation S for sales outside of the United States.

Item 16. Exhibits and Financial Statement Schedules

The following exhibits are filed as part of this registration statement.

EXHIBIT INDEX

Exhibit No.	Description
1.1	Placement Agent Agreement dated May 8, 2018 (incorporated by reference to the Form 8-K filed on May 10, 2018)
2.1	Share exchange agreement dated April 10, 2006 (incorporated by reference to the Form 8-K/A filed on May 5, 2006)
3.1	Certificate of Incorporation (incorporated by reference to the Form SB-2 (File No. 333-90149) filed on November 16, 1999)
3.2	Amendment to the Certificate of Incorporation (incorporated by reference to amendment No. 2 to Form SB-2 (File No. 333-135591) filed on August 28, 2006)
3.3	Amendment to the Certificate of Incorporation (incorporated by reference to the Form DEF 14C filed on April 20, 2007)
3.4	Amendment to the Certificate of Incorporation (incorporated by reference to the Form S-1/A filed on May 12, 2017)
3.5	By-Laws (incorporated by reference to the Form SB-2 (File No. 333-91049) filed on November 16, 1999)
3.6	Amended and Restated By-Laws (incorporated by reference to the Form 8-K filed on March 31, 2011)
3.7	Amended and Restated By-Laws (incorporated by reference to the Form 8-K filed on March 21, 2012)
4.1	Form of Warrant (incorporated by reference to the Form 8-K filed on May 10, 2018)

5.1*	Opinion of Dorsey & Whitney LLP
9.1	Voting Trust agreement (incorporated by reference to the Form 8-K/A filed on May 5, 2006)
10.1 +	Horst Zerbe employment agreement dated October 1, 2014 (incorporated by reference to the Form 10-Q filed on November 12, 2014)
10.2	Registration rights agreement (incorporated by reference to the Form SB-2 (File No. 333-135591) filed on July 3, 2006)
10.3	Principal's registration rights agreement (incorporated by reference to the Form SB-2 (File No. 333- 135591) filed on July 3, 2006)
10.4 +	2006 Stock Option Plan (incorporated by reference to the Form S-8 filed on November 21, 2006)
10.5 +	Amended and Restated 2006 Stock Option Plan, May 29, 2008 (incorporated by reference to the Form 10-K filed on March 25, 2009)
10.6	Co-Development and Commercialization Agreement with RedHill Biopharma Ltd. (incorporated by reference to the Form 10-Q filed on November 9, 2010)
10.7 +	Amended and Restated 2006 Stock Option Plan (incorporated by reference to the Form S-8 filed on November 15, 2010)
10.8	Project Transfer Agreement (incorporated by reference to the Form 10-Q filed on May 14, 2010)
10.9	Co-development and Licensing Agreement (incorporated by reference to the Form 10-Q filed on May 14, 2010)
10.10	License and Asset Transfer Agreement with Edgemont Pharmaceuticals (incorporated by reference to the Form 10Q filed on May 15, 2012)
10.11+	Amended and Restated 2006 Stock Option Plan, (incorporated by reference to the Form 8-K filed on May 9, 2013)
10.12	Engagement Letter Wainwright dated October 10, 2013, amended December 3, 2013 (incorporated by reference to the Form S-1/A Registration Statement filed December 16, 2013)
10.13	Amended Form of Securities Purchase Agreement (incorporated by reference to the Form S-1/A Registration Statement filed on December 16, 2013)
10.14	Form of Warrant (incorporated by reference to the Form S-1/A Registration Statement filed on October 25, 2013)
10.15	Form of Placement Agent Warrant (incorporated by reference to the Form S-1/A Registration Statement filed on December 4, 2013)
10.16 ++	Development Services and Commercialization Agreement with PAR Pharmaceuticals, dated December 19, 2011 (incorporated by reference to the Form 10-K filed on March 11, 2014)
10.17 ++	Development Services and Commercialization Agreement with PAR Pharmaceuticals, dated January 8, 2014 (incorporated by reference to the Form 10-K filed on March 11, 2014)
10.18+	Employment Agreement John Durham, January 2015 (incorporated by reference to the Form 10-K filed on March 31, 2015)
10.19+	Employment Agreement Andre Godin, July 2015 (incorporated by reference to the Form 8-K filed on July 20, 2015)
10.20+	Employment Agreement Nadine Paiement, January 2016 (incorporated by reference to the Form 10-K filed on March 30, 2016)
10.21+	Employment Agreement Dana Matzen, March 2016 (incorporated by reference to the Form 10-K filed on March 30, 2016)
10.22+	2016 Stock Option Plan May, 11 2016 (incorporated by reference to the Form S-8 Registration Statement filed on August 3, 2016)
10.23	Amended Principal's Registration Rights Agreement, November 8, 2016 (incorporated by reference to Form 10-Q filed on November 10, 2016)
10.24	Agency Agreement dated June 28, 2017 (incorporated by reference from the Company's Form 8-K filed on July 5, 2017)
10.25+	Deferred Share Unit Plan for non-employee directors
10.26	Form of Securities Purchase Agreement (incorporated by reference to the Form 8-K filed on May 10, 2018)
10.27	Form of Registration Rights Agreement (incorporated by reference to the Form 8-K filed on May 10, 2018)
10.28	Form of Note (incorporated by reference to the Form 8-K filed on May 10, 2018)
21.1	Subsidiaries of the small business issuer (incorporated by reference to the Form SB-2 (File No. 333- 135591) filed on July 3, 2006)

* Filed herewith

** previously filed

+ Indicates management contract or employee compensation plan

++ Portions of this exhibit have been omitted based on an application for confidential treatment from the SEC. The omitted portions of these exhibits have been submitted separately with the SEC

Item 17. Undertakings

The undersigned registrant hereby undertakes:

- (1) To file, during any period in which offers or sales are being made, a post-effective amendment to this registration statement:
 - (a) To include any prospectus required by Section 10(a)(3) of the Securities Act of 1933;
 - (b) To reflect in the prospectus any facts or events arising after the effective date of the registration statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in the registration statement. Notwithstanding the foregoing, any increase or decrease in volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the SEC pursuant to Rule 424(b) if, in aggregate, the changes in volume and price represent no more than a 20 percent change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective registration statement; and
 - (c) To include any material information with respect to the plan of distribution not previously disclosed in the registration statement or any material change to such information in the registration statement.
- (2) That, for the purpose of determining any liability under the Securities Act of 1933, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.
- (3) To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.
- (4) That, for the purpose of determining liability under the Securities Act of 1933 to any purchaser:
 - (a) If the Corporation is relying on Rule 430B:
 - (i) Each prospectus filed by the Corporation pursuant to Rule 424(b)(3) shall be deemed to be part of the registration statement as of the date the filed prospectus was deemed part of and included in the registration statement; and
 - (ii) Each prospectus required to be filed pursuant to Rule 424(b)(2), (b)(5), or (b)(7) as part of a registration statement in reliance on Rule 430B relating to an offering made pursuant to Rule 415(a)(1)(i), (vii), or (x) for the purpose of providing the information required by section 10(a) of the Securities Act shall be deemed to be part of and included in the registration statement as of the earlier of the date such form of prospectus is first used after effectiveness or the date of the first contract of sale of securities in the offering described in the prospectus. As provided in Rule 430B, for liability purposes of the issuer and any person that is at that date an underwriter, such date shall be deemed to be a new effective date of the registration statement relating to the securities in the registration statement to which that prospectus relates, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof; provided, however, that no statement made in a registration statement or prospectus that is part of the registration statement or made in a document incorporated or deemed incorporated by reference into the registration statement or prospectus that is part of the registration statement will, as to a purchaser with a time of contract of sale prior to such effective date, supersede or modify any statement that was made in the registration statement or prospectus that was part of the registration statement or made in any such document immediately prior to such effective date; or

(b) If the Corporation is subject to Rule 430C: Each prospectus filed pursuant to Rule 424(b) as part of a registration statement relating to an offering, other than registration statements relying on Rule 430B or other than prospectuses filed in reliance on Rule 430A, shall be deemed to be part of and included in the registration statement as of the date it is first used after effectiveness; provided, however, that no statement made in a registration statement or prospectus that is part of the registration statement or made in a document incorporated or deemed incorporated by reference into the registration statement or prospectus that is part of the registration statement will, as to a purchaser with a time of contract of sale prior to such first use, supersede or modify any statement that was made in the registration statement or prospectus that was part of the registration statement or made in any such document immediately prior to such date of first use.

(5) That, for the purpose of determining liability of the registrant under the Securities Act of 1933 to any purchaser in the initial distribution of the securities: The undersigned registrant undertakes that in a primary offering of securities of the undersigned registrant pursuant to this registration statement, regardless of the underwriting method used to sell the securities to the purchaser, if the securities are offered or sold to such purchaser by means of any of the following communications, the undersigned registrant will be a seller to the purchaser and will be considered to offer or sell such securities to such purchaser:

- (i) Any preliminary prospectus or prospectus of the undersigned registrant relating to the offering required to be filed pursuant to Rule 424;
- (ii) Any free writing prospectus relating to the offering prepared by or on behalf of the undersigned registrant or used or referred to by the undersigned registrant;
- (iii) The portion of any other free writing prospectus relating to the offering containing material information about the undersigned registrant or its securities provided by or on behalf of the undersigned registrant; and
- (iv) Any other communication that is an offer in the offering made by the undersigned registrant to the purchaser.

(6) For purposes of determining any liability under the Securities Act of 1933, the information omitted from the form of prospectus filed as part of this registration statement in reliance upon Rule 430A and contained in a form of prospectus filed by the registrant pursuant to Rule 424(b) (1) or (4) or 497(h) under the Securities Act shall be deemed to be part of this registration statement as of the time it was declared effective.

(7) Insofar as Indemnification for liabilities arising under the Securities Act of 1933 may be permitted to directors, officers and controlling persons of the registrant pursuant to the foregoing provision, or otherwise, the registrant has been advised that in the opinion of the SEC such indemnification is against public policy as expressed in the Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the registrant of expenses incurred or paid by a director, officer or controlling person of the registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question of whether such indemnification by it is against public policy as expressed in the Act and will be governed by the final adjudication of such issue.

The undersigned registrant hereby undertakes that, for purposes of determining any liability under the Securities Act of 1933, each filing of the registrant's annual report pursuant to section 13(a) or section 15(d) of the Securities Exchange Act of 1934 (and, where applicable, each filing of an employee benefit plan's annual report pursuant to section 15(d) of the Securities Exchange Act of 1934) that is incorporated by reference in the registration statement shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the Registrant has duly caused this Amendment No. 1 to the Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Ville St-Laurent, Province of Quebec, on July 24, 2018.

INTELGENX TECHNOLOGIES CORP.

By: /s/ Horst G. Zerbe
Horst G. Zerbe
Chief Executive Officer and President
(Principal Executive Officer)

By: /s/ Andre Godin
Andre Godin
Chief Financial Officer (Principal Financial and
Accounting Officer)

POWER OF ATTORNEY

Each person whose signature appears below constitutes and appoints Horst Zerbe his or her true and lawful attorney in fact and agent, with full power of substitution and resubstitution, for him or her and in his or her name, place and stead, in any and all capacities, to sign any or all amendments (including post effective amendments) to the Registration Statement, and to sign any registration statement for the same offering covered by this Registration Statement that is to be effective upon filing pursuant to Rule 462(b) under the Securities Act of 1933, as amended, and all post effective amendments thereto, and to file the same, with all exhibits thereto, and all documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorney-in-fact and agent, full power and authority to do and perform each and every act and thing requisite and necessary to be done in and about the premises, as fully to all intents and purposes as he or she might or could do in person, hereby ratifying and confirming all that said attorney-in-fact and agent, each acting alone, or his or her substitute or substitutes, may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Act of 1933, this Registration Statement has been signed below by the following persons in the capacities and on the dates indicated.

<u>SIGNATURE</u>	<u>TITLE</u>	<u>DATE</u>
<u>/s/ Horst G. Zerbe</u> Horst G. Zerbe	Chief Executive Officer, President and Director	July 24, 2018
<u>/s/ Andre Godin</u> Andre Godin	Executive Vice President and Chief Financial Officer	July 24, 2018
<u>*</u> J. Bernard Boudreau	Director	July 24, 2018
<u>*</u> John Marinucci	Director	July 24, 2018
<u>*</u> Bernd J. Melchers	Director	July 24, 2018
<u>*</u> Clemens Mayr	Director	July 24, 2018
<u>*</u> Mark Nawacki	Director	July 24, 2018
<u>* By: /s/ Horst G. Zerbe</u> Horst G. Zerbe, Attorney-in-fact		

July 24, 2018

IntelGenx Technologies Corp.
6420 Abrams, Ville Saint Laurent, Quebec
H4S 1Y2 Canada

Re: Registration Statement on Form S-1

Ladies and Gentlemen:

We have acted as counsel to IntelGenx Technologies Corp., a Delaware corporation (the “Company”), in connection with a Registration Statement on Form S-1 (the “Registration Statement”) filed by the Company with the Securities and Exchange Commission (the “Commission”) under the Securities Act of 1933, as amended (the “Securities Act”), relating to the offer and sale by certain selling securityholders of up to 2,540,800 shares of common stock, par value \$0.00001 per share, of the Company (the “Shares”), \$1,600,000 of 6% Subordinated Convertible Unsecured Promissory Notes due 2021 (the “Notes”), 2,000,000 shares of common stock issuable upon conversion of the Notes (the “Conversion Shares”), 360,000 shares of common stock issuable in lieu of interest on the Notes (the “Interest Shares”), 2,704,075 warrants to purchase common stock (the “Warrants”) and 2,704,075 shares of common stock issuable upon exercise of the Warrants (the “Warrant Shares”).

We have examined such documents and have reviewed such questions of law as we have considered necessary or appropriate for the purposes of our opinions set forth below. In rendering our opinions set forth below, we have assumed the authenticity of all documents submitted to us as originals, the genuineness of all signatures and the conformity to authentic originals of all documents submitted to us as copies. We have also assumed the legal capacity for all purposes relevant hereto of all natural persons and, with respect to all parties to agreements or instruments relevant hereto other than the Company, that such parties had the requisite power and authority (corporate or otherwise) to execute, deliver and perform such agreements and instruments, that such agreements and instruments have been duly authorized by all requisite action (corporate or otherwise), executed and delivered by such parties and that such agreements and instruments are the valid, binding and enforceable obligations of such parties. In addition, in rendering our opinions set forth below, we have assumed that all agreements or instruments relevant hereto are the valid, binding and enforceable obligations of all parties thereto, other than the Company. As to questions of fact material to our opinions, we have relied upon certificates or comparable documents of officers and other representatives of the Company and of public officials. Our opinions expressed below are limited to the Delaware General Corporation Law.

Based on the foregoing, we are of the opinion that

1. The Shares have been validly issued and are fully paid and non-assessable.
2. The Notes are binding obligations of the Company.
3. The Warrants are binding obligations of the Company

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July 24, 2018
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4. The Conversion Shares, when issued and delivered upon conversion of the Notes in accordance with the terms thereof, will be validly issued, fully paid and non-assessable.
5. The Interest Shares, when issued and delivered in lieu of interest on the Notes in accordance with the terms thereof, will be validly issued, fully paid and non-assessable.
6. The Warrant Shares, when issued and delivered upon exercise of the Warrants in accordance with the terms thereof, will be validly issued, fully paid and non-assessable.

Our opinions set forth above are subject to the following qualifications and exceptions:

- (a) Our opinions set forth above are subject to the effect of any applicable bankruptcy, insolvency, reorganization, moratorium or similar law relating to or affecting creditors' rights generally (including, without limitation, fraudulent conveyance laws).
- (b) Our opinions set forth above are subject to the effect of general principles of equity, including, without limitation, concepts of materiality, reasonableness, good faith and fair dealing and the possible unavailability of specific performance or injunctive relief, regardless of whether considered in a proceeding in equity or at law.
- (c) Our opinions set forth above are subject to limitations regarding the availability of indemnification and contribution where such indemnification or contribution may be limited by applicable law or the application of principles of public policy.
- (d) We express no opinion as to (i) provisions that relate to choice of law, forum selection or submission to jurisdiction (including, without limitation, any express or implied waiver of any objection to venue in any court or of any objection that a court is an inconvenient forum) to the extent that the validity, binding effect or enforceability of any such provision is to be determined by any court other than a state court of the State of Delaware, (ii) waivers by the Company of any statutory or constitutional rights or remedies, (iii) terms which excuse any person or entity from liability for, or require the Company to indemnify such person or entity against, such person's or entity's negligence or willful misconduct or (iv) obligations to pay any prepayment premium, default interest rate, early termination fee or other form of liquidated damages, if the payment of such premium, interest rate, fee or damages may be construed as unreasonable in relation to actual damages or disproportionate to actual damages suffered as a result of such prepayment, default or termination.



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- (e) We draw your attention to the fact that, under certain circumstances, the enforceability of terms to the effect that provisions may not be waived or modified except in writing may be limited.

We hereby consent to the filing of this opinion as an exhibit to the Registration Statement, and to the reference to our firm under the heading “Legal Matters” in the prospectus constituting part of the Registration Statement. In giving this consent, we do not admit that we are within the category of persons whose consent is required under Section 7 of the Securities Act or the rules and regulations of the Commission thereunder.

Very truly yours,

/s/ Dorsey & Whitney LLP

RBR/JBG