

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

FORM 10-Q/A

**QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE
ACT OF 1934**

For the quarterly period ended March 31, 2011

or

**TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE
ACT OF 1934**

For the transition period from _____ to _____

Commission File Number: 000-31187

INTELGENX TECHNOLOGIES CORP.

(Exact name of registrant as specified in its charter)

Delaware

(State or other jurisdiction of incorporation or organization)

87-0638336

(IRS Employer Identification No.)

6425 Abrams, Ville Saint Laurent, Quebec H4S 1X9, Canada

(Address of principal executive offices, including zip code)

(514) 331-7440

(Registrant's telephone number, including area code)

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to the filing requirements for the past 90 days.

Yes No

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files).

Yes No

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" and "smaller reporting company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer

Accelerated filer

Non-accelerated filer

Smaller reporting company

(Do not check if a smaller reporting company)

Indicate by check mark whether registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act)

Yes No

46,215,511 shares of the registrant's common stock, par value \$.00001 per share, were issued and outstanding as of August 16, 2011.

EXPLANATORY NOTE

IntelGenx Technologies Corp. (the “Company”) is filing this Amendment No. 1 to its Quarterly Report on Form 10-Q/A for the three months ended March 31, 2011, which was originally filed with the Securities and Exchange Commission (the “Commission”) on May 10, 2011 (the “Original Form 10-Q”), to incorporate the Company’s revisions and responses to a letter of comment from the staff of the Commission dated as of August 4, 2011.

This Form 10-Q/A includes new certifications as Exhibits 31.1, 31.2, 32.1 and 32.2 by the Company’s principal executive officer and principal financial officer as required by Rules 12b-15 and 13a-14 promulgated under the Securities Exchange Act of 1934, as amended (the “Exchange Act”). Except for the amended disclosures set forth below, the information in this Form 10-Q/A has not been updated to reflect events that occurred after May 10, 2011, the filing date of the Original Form 10-Q. Accordingly, this Form 10-Q/A should be read in conjunction with the Original Form 10-Q and the Company’s filings made with the Commission subsequent to the filing of the Original Form 10-Q, including any amendments to those filings. The following sections have been amended:

Exhibit 31.1 - Certification of Chief Executive Officer pursuant to Rule 13a-14(a) of the Exchange Act, as enacted by Section 302 of the Sarbanes-Oxley Act of 2002; and

Exhibit 31.2 - Certification of Chief Financial Officer pursuant to Rule 13a-14(a) of the Exchange Act, as enacted by Section 302 of the Sarbanes-Oxley Act of 2002.

Exhibits 31.1 and 31.2 as set forth above have been revised to include the introductory language of paragraph 4 of Item 601(b)(31) of Regulation S-K to reference internal controls, as well as to include the language of paragraph 4(b) of Item 601(b)(31).

This Form 10-Q/A contains only the sections to the Original Filing which are being amended, and those unaffected sections are not included herein. Except as set forth above, all other information in the Company’s Original Form 10-Q remains unchanged.

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

INTELGEX TECHNOLOGIES CORPORATION

By: /s/ Horst Zerbe

Horst G. Zerbe
President and Chief Executive
Officer
(Principal Executive Officer)

Date: August 18, 2011

By: /s/ Paul Simmons

Paul A. Simmons
Chief Financial Officer
(Principal Financial and
Accounting Officer)

Date: August 18, 2011

CERTIFICATION PURSUANT TO
SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

I, Horst G. Zerbe, Chief Executive Officer of the IntelGenx Technologies Corporation (the "registrant"), certify that:

1. I have reviewed this quarterly report on Form 10-Q/A of IntelGenx Technologies Corporation;

2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;

3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;

4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and we have:

a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;

b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;

c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and

d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and

5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of registrant's board of directors (or persons performing the equivalent functions):

a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and

b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

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

Date: August 18, 2011

CERTIFICATION PURSUANT TO
SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

I, Paul A. Simmons, Chief Financial Officer of IntelGenx Technologies Corporation (the "registrant"), certify that:

1. I have reviewed this quarterly report on Form 10-Q/A of IntelGenx Technologies Corporation;

2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;

3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;

4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and we have:

a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;

b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;

c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and

d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and

5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of registrant's board of directors (or persons performing the equivalent functions):

a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and

b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

/s/ Paul Simmons

Paul A. Simmons
Chief Financial Officer
(Principal Financial and Accounting Officer)

Date: August 18, 2011

CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Quarterly Report of IntelGenx Technologies Corporation (the "Company") on Form 10-Q/A for the period ending March 31, 2011, as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Horst Zerbe, Chief Executive Officer of the Company, certify, pursuant to 18 U.S.C. Sec. 1350, as adopted pursuant to Sec. 906 of the Sarbanes-Oxley Act of 2002, that, to the best of my knowledge and belief:

- (1) The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

A signed original of this written statement required by Section 906, or other document authenticating, acknowledging, or otherwise adopting the signature that appears in typed form within the electronic version of this written statement has been provided to the Company and will be retained by the Company and furnished to the Securities and Exchange Commission or its staff upon request. The foregoing certifications are accompanying the Company's Form 10-Q/A solely pursuant to section 906 of the Sarbanes-Oxley Act of 2002 (subsections (a) and (b) of section 1350, chapter 63 of title 18, United States Code) and is not being filed as part of the Form 10-Q/A or as a separate disclosure document.

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

Date: August 18, 2011

CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Quarterly Report of IntelGenx Technologies Corporation (the "Company") on Form 10-Q/A for the period ending March 31, 2011, as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Paul Simmons, Chief Financial Officer of the Company, certify, pursuant to 18 U.S.C. Sec. 1350, as adopted pursuant to Sec. 906 of the Sarbanes-Oxley Act of 2002, that, to the best of my knowledge and belief:

- (1) The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

A signed original of this written statement required by Section 906, or other document authenticating, acknowledging, or otherwise adopting the signature that appears in typed form within the electronic version of this written statement has been provided to the Company and will be retained by the Company and furnished to the Securities and Exchange Commission or its staff upon request. The foregoing certifications are accompanying the Company's Form 10-Q/A solely pursuant to section 906 of the Sarbanes-Oxley Act of 2002 (subsections (a) and (b) of section 1350, chapter 63 of title 18, United States Code) and is not being filed as part of the Form 10-Q/A or as a separate disclosure document.

/s/ Paul Simmons
Paul A. Simmons
Chief Financial Officer
(Principal Financial and Accounting Officer)

Date: August 18, 2011
