

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 40-F

[] REGISTRATION STATEMENT PURSUANT TO SECTION 12 OF THE SECURITIES EXCHANGE ACT OF 1934

[X] ANNUAL REPORT PURSUANT TO SECTION 13(a) OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended December 31, 2016

Commission File Number 000-13727

Pan American Silver Corp.

(Exact name of Registrant as specified in its charter)

British Columbia
(Province or other Jurisdiction of Incorporation or Organization)

1044
(Primary Standard Industrial Classification Code Number)

Not Applicable
(I.R.S. Employer Identification No.)

1500 - 625 Howe Street
Vancouver, British Columbia
V6C 2T6
(604) 684-1175

(Address and telephone number of Registrant's principal executive offices)

CT Corporation
111 Eighth Avenue, 13th Floor
New York, NY 10011
(212) 894-8940

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

Securities registered or to be registered pursuant to Section 12(b) of the Act.

Table with 2 columns: Title of Each Class, Name of Each Exchange on Which Registered. Row 1: Common Shares, No Par Value; The NASDAQ Stock Market

Securities registered or to be registered pursuant to Section 12(g) of the Act.

None

Securities for which there is a reporting obligation pursuant to Section 15(d) of the Act.

None

For annual reports, indicate by check mark the information filed with this Form:

[X] Annual information form [X] Audited annual financial statements

Indicate the number of outstanding shares of each of the issuer's classes of capital or common stock as of the close of the period covered by this annual report:

The Registrant had 152,334,652 Common Shares outstanding as at December 31, 2016.

Indicate by check mark whether the Registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Exchange Act 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 such filing requirements for the past 90 days.

Yes [X] 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 _____

**CAUTIONARY NOTE TO UNITED STATES INVESTORS CONCERNING
ESTIMATES OF MEASURED, INDICATED AND INFERRED MINERAL RESOURCES**

Unless otherwise indicated, all reserve and resource estimates included in this Annual Report on Form 40-F have been prepared in accordance with Canadian National Instrument 43-101 — *Standards of Disclosure for Mineral Projects* (“NI 43-101”) and the Canadian Institute of Mining, Metallurgy and Petroleum classification system. NI 43-101 is a rule developed by the Canadian Securities Administrators that establishes standards for all public disclosure an issuer makes of scientific and technical information concerning mineral projects. Canadian standards, including NI 43-101, differ significantly from the requirements of the United States Securities and Exchange Commission (the “SEC”), and reserve and resource information included herein may not be comparable to similar information disclosed by U.S. companies. In particular, and without limiting the generality of the foregoing, this Annual Report on Form 40-F uses the terms “measured resources,” “indicated resources” and “inferred resources.” U.S. investors are advised that, while such terms are recognized and required by Canadian securities laws, the SEC does not recognize them. The requirements of NI 43-101 for the identification of “reserves” are also not the same as those of the SEC, and reserves reported by the Registrant in compliance with NI 43-101 may not qualify as “reserves” under SEC standards. Under U.S. standards, mineralization may not be classified as a “reserve” unless the determination has been made that the mineralization could be economically and legally produced or extracted at the time the reserve determination is made. U.S. investors are cautioned not to assume that any part of a “measured resource” or “indicated resource” will ever be converted into a “reserve.” U.S. investors should also understand that “inferred resources” have a great amount of uncertainty as to their existence and as to their economic and legal feasibility. It cannot be assumed that all or any part of “inferred resources” exist, are economically or legally mineable or will ever be upgraded to a higher category. Under Canadian rules, estimated “inferred resources” may not form the basis of feasibility or pre-feasibility studies except in rare cases. In addition, disclosure of “contained ounces” in a mineral resource is permitted disclosure under Canadian regulations. However, the SEC normally only permits issuers to report mineralization that does not constitute “reserves” by SEC standards as in place tonnage and grade, without reference to unit measures. Accordingly, information concerning mineral deposits set forth in this Annual Report on Form 40-F may not be comparable with information made public by companies that report in accordance with U.S. standards.

A. Disclosure Controls and Procedures

Disclosure controls and procedures are defined in Rules 13a-15(e) and 15d-15(e) under the U.S. Securities Exchange Act of 1934, as amended (the "Exchange Act"), as those controls and other procedures that are designed to ensure that information required to be disclosed by the Registrant in reports filed or submitted by it under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the SEC's rules and forms. Rules 13a-15(e) and 15d-15(e) also provide that disclosure controls and procedures include, without limitation, controls and procedures designed to ensure that information required to be disclosed by the Registrant is accumulated and communicated to the Registrant's management as appropriate to allow timely decisions regarding required disclosure.

As of December 31, 2016, the end of the period covered by this Annual Report on Form 40-F, the Registrant carried out an evaluation, under the supervision and with the participation of the Registrant's management, including the Registrant's Chief Executive Officer and Chief Financial Officer, of the effectiveness of the design and operation of the Registrant's disclosure controls and procedures, as defined in Rules 13a-15(e) and 15d-15(e) of the Exchange Act. Based on that evaluation, the Chief Executive Officer and Chief Financial Officer have concluded that, as of December 31, 2016, the Registrant's disclosure controls and procedures were effective. See "Disclosure Controls and Procedures" in Management's Discussion and Analysis for the fiscal year ended December 31, 2016, filed as Exhibit No. 1.2 to this Annual Report on Form 40-F.

B. Management's Annual Report on Internal Control Over Financial Reporting

See "Management's Report on Internal Control over Financial Reporting" in Management's Discussion and Analysis for the fiscal year ended December 31, 2016, filed as Exhibit 1.2 to this Annual Report on Form 40-F.

C. Attestation Report of the Independent Registered Public Accounting Firm

The attestation report of Deloitte LLP, the Registrant's Independent Registered Public Accounting Firm, on management's assessment of the Registrant's internal control over financial reporting is included in the "Report of Independent Registered Public Accounting Firm" filed with the Registrant's Audited Consolidated Financial Statements for the fiscal years ended December 31, 2016 and 2015, as Exhibit 1.3 to this Annual Report on Form 40-F.

D. Changes in Internal Control Over Financial Reporting

There was no change in the Registrant's internal control over financial reporting that occurred during the period covered by this report that has materially affected, or is reasonably likely to materially affect, the Registrant's internal control over financial reporting.

E. Notice of Pension Fund Blackout Period

The Registrant was not required by Rule 104 of Regulation BTR to send any notice to any of its directors or executive officers during the fiscal year ended December 31, 2016.

F. Audit Committee Financial Expert

The Registrant's board of directors has determined that Michael Carroll, an individual serving on the Audit Committee of the Registrant's board of directors, is an audit committee financial expert, as that term is defined in General Instruction B(8)(b) of Form 40-F and is independent under Rule 10A-3 under the Exchange Act and the rules and regulations of the Nasdaq Stock Market.

The Commission has indicated that the designation of a person as an audit committee financial expert does not make such person an "expert" for any purpose, impose any duties, obligations or liabilities on such person that are greater than those imposed on members of the audit committee and the board of directors who do not carry this designation or affect the duties, obligations or liability of any other member of the audit committee or board of directors.

G. Code of Ethical Conduct

The Registrant has adopted a global code of ethical conduct (the "Code") that applies to all directors, officers and employees. A copy of the Code may be obtained at www.panamericansilver.com. No waivers from the requirements of the Code were granted in the fiscal year ended December 31, 2016.

H. Principal Accountant Fees and Services and Audit Committee Pre-Approval Policies

Information about the Registrant's principal accountant fees and services and a description of the Registrant's pre-approval policies and procedures is included under the heading "External Auditor Service Fees" of the Registrant's Annual Information Form for the fiscal year ended December 31, 2016, filed as Exhibit 1.1 to this Annual Report on Form 40-F.

I. Off-Balance Sheet Arrangements

The Registrant is not a party to any off-balance sheet arrangements that have or are reasonably likely to have a current or future effect on its financial condition, changes in financial condition, revenues or expenses, results of operations, liquidity, capital expenditures or capital resources that is material to investors.

J. Tabular Disclosure of Contractual Obligations

The required disclosure can be found under the heading "Contractual Commitments and Contingencies" of Management's Discussion and Analysis for the fiscal year ended December 31, 2016, filed as Exhibit 1.2 to this Annual Report on Form 40-F.

K. Nasdaq Stock Market Exemptions

On March 16, 2005, the Registrant informed the Nasdaq Stock Market that as permitted by Rule 4350(a)(1) of the Nasdaq Marketplace Rules, it intended to follow British Columbia practice with respect to quorum requirements in lieu of those required by Rule 4350(f) of the Nasdaq Marketplace Rules (which provides that a quorum for a shareholder meeting of a Nasdaq-listed company must be at least 33-1/3% of the outstanding common shares of the company). The Registrant's by-laws provide that the minimum quorum for a meeting of holders of Common Shares is two individuals who are shareholders, proxy holders or duly authorized representatives of corporate shareholders personally present and representing shares aggregating not less than 25% of the issued shares of the Registrant carrying the right to vote. The Registrant's quorum requirements are not prohibited by the requirements of the *Business Corporations Act* (British Columbia) and the Registrant intends to continue to comply with the requirements of the *Business Corporations Act* (British Columbia). The rules of the Toronto Stock Exchange, upon which the Common Shares are also listed, do not contain specific quorum requirements.

L. Identification of the Audit Committee

The Registrant has a separately-designated standing Audit Committee established in accordance with Section 3(a)(58)(A) of the Exchange Act. The members of the Audit Committee are Gillian D. Winckler, Neil de Gelder and Michael Carroll. Gillian D. Winckler, Neil de Gelder and Michael Carroll are independent as such term is defined under Rule 10A-3 under the Exchange Act and the rules and regulations of the Nasdaq Stock Market. Further information about the Registrant's Audit Committee can be found under the heading "Audit Committee" of the Registrant's Annual Information Form for the fiscal year ended December 31, 2016, filed as Exhibit 1.1 to this Annual Report on Form 40-F.

M. Interactive Data File

The Registrant is not currently required to submit to the Commission, nor post to its corporate Web site, an Interactive Data File.

N. Mine Safety

The Registrant is not currently required to disclose the information required by Section 1503(a) of the Dodd-Frank Wall Street Reform and Consumer Protection Act.

UNDERTAKING AND CONSENT TO SERVICE OF PROCESS

A. Undertaking

The Registrant undertakes to make available, in person or by telephone, representatives to respond to inquiries made by the Commission staff, and to furnish promptly, when requested to do so by the Commission staff, information relating to the securities in relation to which the obligation to file an annual report on Form 40-F arises; or transactions in said securities.

B. Consent to Service of Process

The Registrant has previously filed with the Commission a Form F-X in connection with its Common Shares. Any change to the name and address of the agent for service of process shall be communicated promptly to the Commission by an amendment to Form F-X.

EXHIBITS

The following exhibits are filed as part of this report:

<u>Exhibit Number</u>	<u>Title</u>
1.1	Annual Information Form for the fiscal year ended December 31, 2016.
1.2	Management's Discussion and Analysis for the fiscal year ended December 31, 2016.
1.3	Audited Consolidated Financial Statements for the fiscal years ended December 31, 2016 and 2015.
23.1	Consent of Deloitte LLP.
23.2	Consent of Martin Wafforn.
23.3	Consent of Michael Steinmann.
23.4	Consent of Pamela De Mark.
23.5	Consent of Americo Delgado.
23.6	Consent of Christopher Emerson.
31.1	Certification of CEO pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
31.2	Certification of CFO pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
32.1	Certification of CEO and CFO pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.

Exhibits 1.1, 1.2 and 1.3 are incorporated by reference into the Registrant's Registration Statement on Form F-10 (File No. 333-212468) and Registration Statements on Form S-8 (File Nos. 333-180494, 333-180495 and 333-206162).

SIGNATURE

Pursuant to the requirements of the Exchange Act, the Registrant certifies that it meets all of the requirements for filing on Form 40-F and has duly caused this annual report to be signed on its behalf by the undersigned, thereto duly authorized.

PAN AMERICAN SILVER CORP.

Dated: March 22, 2017

By: _____
Delaney Fisher
Title: Vice President Legal Affairs and
Corporate Secretary

EXHIBITS

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23.3	Consent of Michael Steinmann.
23.4	Consent of Pamela De Mark.
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Exhibits 1.1, 1.2 and 1.3 are incorporated by reference into the Registrant's Registration Statement on Form F-10 (File No. 333-212468) and Registration Statements on Form S-8 (File Nos. 333-180494, 333-180495 and 333-206162).

Exhibit 1.1

Exhibit 1.2

Exhibit 1.3

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We consent to the incorporation by reference in Registration Statement No. 333-212468 on Form F-10 and Registration Statement Nos. 333-180494, 333-180495 and 333-206162 on Form S-8, and to the use of our reports dated March 22, 2017 relating to the consolidated financial statements of Pan American Silver Corp. and subsidiaries (the “Company”) and the effectiveness of the Company’s internal control over financial reporting appearing in this Annual Report on Form 40-F of Pan American Silver Corp. for the year ended December 31, 2016.

Chartered Professional Accountants
Vancouver, Canada
March 22, 2017

CONSENT OF MARTIN WAFFORN, P. ENG.

To: United States Securities and Exchange Commission

Re: Expert Consent for Annual Report on Form 40-F

Technical reports entitled:

1. "Manantial-Espejo Project Canadian Standard NI 43-101, Santa Cruz Province, Argentina" dated March 2006 relating to the Manantial Espejo property;
2. "Feasibility Study Volume I – NI 43-101 Technical Report for Alamo Dorado Project, Alamos, Sonora, Mexico" dated March 31, 2005 relating to the Alamo Dorado property;
3. "Technical Report for the San Vincente Property, Potosi Bolivia" dated effective December 31, 2014 relating to the San Vincente property;
4. "Pan American Silver Corp. Navidad Project, Chubut Province, Argentina: Preliminary Assessment" dated January 14, 2011 relating to the Navidad property;
5. "Technical Report – Preliminary Economic Analysis for the Expansion of the La Colorada Mine, Zacatecas, Mexico" dated effective December 31, 2013 relating to the La Colorada property;
6. "Technical Report for the Dolores Property, Chihuahua, Mexico" dated effective December 31, 2016 relating to the Dolores property;
7. "Technical Report for the Huaron Property, Pasco, Peru" dated effective June 30, 2014 relating to the Huaron property; and
8. "Technical Report for the Morococha Property, Yauli, Peru" dated effective June 30, 2014 relating to the Morococha property.

(collectively, the "Technical Reports")

were prepared for Pan American Silver Corp. (the "Corporation") in accordance with National Instrument 43-101 – *Standards of Disclosure for Mineral Projects* by Martin Wafforn, P. Eng., in whole or in part, and filed with applicable securities regulatory authorities.

The undersigned does hereby consent to the inclusion of the written disclosure of the Technical Reports and the extracts from, or summary of, or references to the Technical Reports and other scientific and technical information attributed to the undersigned by the Corporation in the annual information form of the Corporation, dated March 22, 2017 (the "AIF") and in the Annual Report on Form 40-F of the Corporation, dated March 22, 2017 (the "40-F"). The undersigned does also hereby consent to the reference to my name in the AIF and the 40-F.

The undersigned consents to the incorporation by reference in the Registration Statements on Form S-8 (File Nos., 333-180494, 333-180495 and 333-206162) and on Form F-10 (File No. 333-212468) of the references to my name and the above mentioned information in the AIF and 40-F.

The undersigned does hereby confirm that I have read the AIF and the 40-F and have no reason to believe that there are any misrepresentations in the information contained in the AIF or the 40-F that are (a) derived from the Technical Reports; or (b) within my knowledge as a result of the services I performed in connection with the Technical Reports.

Dated this 22nd day of March, 2017.

Signed: _____
Martin Wafforn, P. Eng.

CONSENT OF MICHAEL STEINMANN, P. GEO.

To: United States Securities and Exchange Commission

Re: Expert Consent for Annual Report on Form 40-F

Technical reports entitled:

1. “Manantial-Espejo Project Canadian Standard NI 43-101, Santa Cruz Province, Argentina” dated March 2006 relating to the Manantial Espejo property;
2. “Feasibility Study Volume I – NI 43-101 Technical Report for Alamo Dorado Project, Alamos, Sonora, Mexico” dated March 31, 2005 relating to the Alamo Dorado property;
3. “Technical Report for the San Vincente Property, Potosi Bolivia” dated effective December 31, 2014 relating to the San Vincente property;
4. “Pan American Silver Corp. Navidad Project, Chubut Province, Argentina: Preliminary Assessment” dated January 14, 2011 related to the Navidad property;
5. “Technical Report – Preliminary Economic Analysis for the Expansion of the La Colorada Mine, Zacatecas, Mexico” dated effective December 31, 2013 relating to the La Colorada property;
6. “Technical Report for the Huaron Property, Pasco, Peru” dated effective June 30, 2014 relating to the Huaron property; and
7. “Technical Report for the Morococha Property, Yauli, Peru” dated effective June 30, 2014 relating to the Morococha property

(collectively, the “**Technical Reports**”)

were prepared for Pan American Silver Corp. (the “**Corporation**”) in accordance with National Instrument 43-101 – *Standards of Disclosure for Mineral Projects* by Michael Steinmann, P. Geo., in whole or in part, and filed with applicable securities regulatory authorities.

The undersigned does hereby consent to the inclusion of the written disclosure of the Technical Reports and the extracts from, or summary of, or references to the Technical Reports and other scientific and technical information attributed to the undersigned by the Corporation in the annual information form of the Corporation, dated March 22, 2017 (the “**AIF**”) and in the Annual Report on Form 40-F of the Corporation, dated March 22, 2017 (the “**40-F**”). The undersigned does also hereby consent to the reference to my name in the AIF and the 40-F.

The undersigned consents to the incorporation by reference in the Registration Statements on Form S-8 (File Nos. 333-180494, 333-180495 and 333-206162) and on Form F-10 (File No. 333-212468) of the references to my name and the above mentioned information in the AIF and 40-F.

The undersigned does hereby confirm that I have read the AIF and the 40-F and have no reason to believe that there are any misrepresentations in the information contained in the AIF or the 40-F that are (a) derived from the Technical Reports; or (b) within my knowledge as a result of the services I performed in connection with the Technical Reports.

Dated this 22nd day of March, 2017.

Signed: _____

Michael Steinmann, P. Geo.

**CONSENT OF PAMELA DE MARK,
P. GEO., BAPPSC (APP GEO, HONS), MAUSIMM**

To: United States Securities and Exchange Commission

Re: Expert Consent for Annual Report on Form 40-F

A technical report “Pan American Silver Corp. Navidad Project, Chubut Province, Argentina: Preliminary Assessment” and dated effective January 14, 2011, (the “**Technical Report**”) was prepared for Pan American Silver Corp. (the “**Corporation**”) in accordance with National Instrument 43-101 – *Standards of Disclosure for Mineral Projects* by Pamela De Mark, P. Geo. BAppSc (App Geo, Hons), MAusIMM, in whole or in part, and filed with applicable securities regulatory authorities.

The undersigned does hereby consent to the inclusion of the written disclosure of the Technical Report and the extracts from, or summary of, or references to the Technical Report and other scientific and technical information attributed to the undersigned by the Corporation in the annual information form of the Corporation, dated March 22, 2017 (the “**AIF**”) and in the Annual Report on Form 40-F of the Corporation, dated March 22, 2017 (the “**40-F**”). The undersigned does also hereby consent to the reference to my name in the AIF and the 40-F.

The undersigned consents to the incorporation by reference in the Registration Statements on Form S-8 (File Nos. 333-180494, 333-180495 and 333-206162) and on Form F-10 (File No. 333-212468) of the references to my name and the above mentioned information in the AIF and 40-F.

The undersigned does hereby confirm that I have read the AIF and the 40-F and have no reason to believe that there are any misrepresentations in the information contained in the AIF or the 40-F that are (a) derived from the Technical Report; or (b) within my knowledge as a result of the services I performed in connection with the Technical Report.

Dated this 22nd day of March, 2017.

Signed: _____
Pamela De Mark,
P. Geo., BAppSc (App Geo, Hons), MAusIMM

CONSENT OF AMERICO DELGADO, P. ENG.

To: United States Securities and Exchange Commission

Re: Expert Consent for Annual Report on Form 40-F

Technical reports entitled:

1. “Technical Report for the Dolores Property, Chihuahua, Mexico” dated effective December 31, 2016 relating to the Dolores property;
2. “Technical Report for the Huaron Property, Pasco, Peru” dated effective June 30, 2014 relating to the Huaron property;
3. “Technical Report for the Morococha Property, Yauli, Peru” dated effective June 30, 2014 relating to the Morococha property; and
4. “Technical Report for the San Vincente Property, Potosi Bolivia” dated effective December 31, 2014 relating to the San Vincente property.

(collectively, the “**Technical Reports**”)

were prepared for Pan American Silver Corp. (the “**Corporation**”) in accordance with National Instrument 43-101 – *Standards of Disclosure for Mineral Projects* by Americo Delgado, P. Eng., in whole or in part, and filed with applicable securities regulatory authorities.

The undersigned does hereby consent to the inclusion of the written disclosure of the Technical Reports and the extracts from, or summary of, or references to the Technical Reports and other scientific and technical information attributed to the undersigned by the Corporation in the annual information form of the Corporation, dated March 22, 2017 (the “**AIF**”) and in the Annual Report on Form 40-F of the Corporation, dated March 22, 2017 (the “**40-F**”). The undersigned does also hereby consent to the reference to my name in the AIF and the 40-F.

The undersigned consents to the incorporation by reference in the Registration Statements on Form S-8 (File Nos. 333-180494, 333-180495 and 333-206162) and on Form F-10 (File No. 333-212468) of the references to my name and the above mentioned information in the AIF and 40-F.

The undersigned does hereby confirm that I have read the AIF and the 40-F and have no reason to believe that there are any misrepresentations in the information contained in the AIF or the 40-F that are (a) derived from the Technical Reports; or (b) within my knowledge as a result of the services I performed in connection with the Technical Reports.

Dated this 22nd day of March, 2017.

Signed: _____

Americo Delgado, P. Eng.

CONSENT OF CHRISTOPHER EMERSON, FAusIMM.

To: United States Securities and Exchange Commission

Re: Expert Consent for Annual Report on Form 40-F

A technical report “Technical Report for the Dolores Property, Chihuahua, Mexico” and dated effective December 31, 2016, (the “**Technical Report**”) was prepared for Pan American Silver Corp. (the “**Corporation**”) in accordance with National Instrument 43-101 – *Standards of Disclosure for Mineral Projects* by Christopher Emerson, FAusIMM, in whole or in part, and filed with applicable securities regulatory authorities.

The undersigned does hereby consent to the inclusion of the written disclosure of the Technical Report and the extracts from, or summary of or references to the Technical Report and other scientific and technical information attributed to the undersigned (the “**Technical Information**”) by the Corporation in the annual information form of the Corporation, dated March 22, 2017 (the “**AIF**”) and in the Annual Report on Form 40-F of the Corporation, dated March 22, 2017 (the “**40-F**”). The undersigned does also hereby consent to the reference to my name in the AIF and the 40-F.

The undersigned consents to the incorporation by reference in the Registration Statements on Form S-8 (File Nos. 333-180494, 333-180495 and 333-206162) and on Form F-10 (File No. 333-212468) of the references to my name and the above mentioned information in the AIF and 40-F.

The undersigned does hereby confirm that I have read the AIF and the 40-F and have no reason to believe that there are any misrepresentations in the information contained in the AIF or the 40-F that are (a) derived from the Technical Report or the Technical Information; or (b) within my knowledge as a result of the services I performed in connection with the Technical Report or the Technical Information.

Dated this 22nd day of March, 2017.

Signed: _____
Christopher Emerson, FAusIMM.

Certification
Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002

I, Michael Steinmann, certify that:

1. I have reviewed this annual report on Form 40-F of Pan American Silver Corp.;
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 issuer as of, and for, the periods presented in this report;
4. The issuer'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 issuer and 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 issuer, 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 issuer'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 issuer's internal control over financial reporting that occurred during the period covered by the annual report that has materially affected, or is reasonably likely to materially affect, the issuer's internal control over financial reporting; and
5. The issuer's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the issuer's auditors and the audit committee of the issuer'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 issuer'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 issuer's internal control over financial reporting.

Date: March 22, 2017

Signed: _____
By: Michael Steinmann
Title: President and Chief Executive Officer

Certification
Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002

I, A. Robert Doyle, certify that:

1. I have reviewed this annual report on Form 40-F of Pan American Silver Corp.;
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 issuer as of, and for, the periods presented in this report;
4. The issuer'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 issuer and 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 issuer, 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 issuer'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 issuer's internal control over financial reporting that occurred during the period covered by the annual report that has materially affected, or is reasonably likely to materially affect, the issuer's internal control over financial reporting; and
5. The issuer's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the issuer's auditors and the audit committee of the issuer'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 issuer'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 issuer's internal control over financial reporting.

Date: March 22, 2017

Signed: _____

By: A. Robert Doyle
Title: Chief Financial Officer

**Certification of CEO and CFO
Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002**

In connection with the Annual Report of Pan American Silver Corp. (the "Registrant") filed under cover of Form 40- F for the year ended December 31, 2016, as filed with the Securities and Exchange Commission on the date hereof (the "Report"), Michael Steinmann, as Chief Executive Officer of the Registrant, and A. Robert Doyle, as Chief Financial Officer of the Registrant, each hereby certifies, pursuant to 18 U.S.C. § 1350, as adopted pursuant to § 906 of the Sarbanes-Oxley Act of 2002, to the best of his knowledge, that:

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

Signed:

By: Michael Steinmann
Title: President & Chief Executive Officer
March 22, 2017

Signed:

By: A. Robert Doyle
Title: Chief Financial Officer
March 22, 2017

This certification accompanies the Report pursuant to § 906 of the Sarbanes-Oxley Act of 2002 and shall not, except to the extent required by the Sarbanes-Oxley Act of 2002, be deemed filed by the Registrant for purposes of §18 of the Securities Exchange Act of 1934, as amended.