

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

FORM 11-K

(Mark One)

ANNUAL REPORT PURSUANT TO SECTION 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934
For the fiscal year ended December 31, 2017

OR

TRANSITION REPORT PURSUANT TO SECTION 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934
For the transition period from _____ to _____

Commission File Number 0-22462

A. Full title of the plan and the address of the plan, if different from that of the issuer named below:

GIBRALTAR 401(k) PLAN

B. Name of issuer of the securities held pursuant to the plan and the address of its principal executive office:

GIBRALTAR INDUSTRIES, INC.
3556 Lake Shore Road
P.O. Box 2028
Buffalo, New York 14219-0228

SIGNATURES

The Plan. Pursuant to the requirements of the Securities Exchange Act of 1934, the trustees (or other persons who administer the employee benefit plan) have duly caused this annual report to be signed on its behalf by the undersigned hereunto duly authorized.

GIBRALTAR 401(k) PLAN

(Name of Plan)

Date: June 15, 2018

/s/ Jeffrey J. Watorek

Jeffrey J. Watorek

Member, Gibraltar 401(k) Retirement Plan Committee

Gibraltar 401(k) Plan

Gibraltar 401(k) Plan

Financial Statements and Supplemental Schedule

December 31, 2017 and 2016

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REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the 401(k) Retirement Plan Committee,
Plan Participants and Plan Administrator of
the Gibraltar 401(k) Plan

Opinion on the Financial Statements

We have audited the accompanying statements of net assets available for benefits of the Gibraltar 401(k) Plan (the Plan) as of December 31, 2017 and 2016, the related statements of changes in net assets available for benefits for the years then ended, and the related notes to the financial statements (collectively, the financial statements). In our opinion, the financial statements present fairly, in all material respects, the net assets available for benefits of the Plan as of December 31, 2017 and 2016, and the changes in net assets available for benefits for the years then ended, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Plan's management. Our responsibility is to express an opinion on the Plan's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Plan in accordance with U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

Report on Supplemental Information

The supplemental information in the accompanying schedule, Schedule H, Line 4i - Schedule of Assets (Held at End of Year) as of December 31, 2017 has been subjected to audit procedures performed in conjunction with the audit of the Plan's financial statements. The supplemental information is presented for the purpose of additional analysis and is not a required part of the financial statements but includes supplemental information required by the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974. The supplemental information is the responsibility of the Plan's management. Our audit procedures included determining whether the supplemental information reconciles to the financial statements or the underlying accounting and other records, as applicable, and performing procedures to test the completeness and accuracy of the information presented in the supplemental information. In forming our opinion on the supplemental information in the accompanying schedule, we evaluated whether the supplemental information, including its form and content, is presented in conformity with the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974. In our opinion, the supplemental information in the accompanying schedule is fairly stated in all material respects in relation to the financial statements as a whole.

Freed Maxick CPAs, P.C.

We have served as the Plan's auditor since 2004.

Buffalo, NY
June 15, 2018

Gibraltar 401(k) Plan
Statements of Net Assets Available for Benefits
December 31, 2017 and 2016

	December 31,	
	2017	2016
Assets		
Investments at fair value:		
Shares of registered investment companies	\$ 122,212,695	\$ 101,504,157
Common collective trust	3,021,211	3,809,323
Employer securities	2,627,724	3,505,866
Cash equivalents	5,237,650	5,477,094
Self-directed brokerage	2,461,839	2,077,636
	<u>135,561,119</u>	<u>116,374,076</u>
Receivables:		
Notes receivable from participants	2,430,852	2,955,517
Employer contributions receivable	265,537	347,724
	<u>2,696,389</u>	<u>3,303,241</u>
Net assets available for benefits	<u><u>\$ 138,257,508</u></u>	<u><u>\$ 119,677,317</u></u>

The accompanying notes are an integral part of these financial statements.

Gibraltar 401(k) Plan
Statements of Changes in Net Assets Available for Benefits
For the Years Ended December 31, 2017 and 2016

	Year Ended December 31,	
	2017	2016
Additions:		
Participant contributions	\$ 5,987,521	\$ 5,519,216
Participant rollover contributions	811,668	495,065
Employer contributions	3,390,984	3,207,042
Net appreciation in fair value of investments	11,854,190	5,401,687
Interest and dividends	7,259,275	4,320,804
	<hr/>	<hr/>
Total additions	29,303,638	18,943,814
Deductions:		
Benefits paid to participants	(17,426,003)	(14,166,255)
Plan expenses	(29,749)	(32,795)
	<hr/>	<hr/>
Total deductions	(17,455,752)	(14,199,050)
Increase in net assets available for benefits, prior to merger	11,847,886	4,744,764
Transfer of net assets available for benefits from merger	6,732,305	—
	<hr/>	<hr/>
Net increase in net assets available for benefits	18,580,191	4,744,764
Net assets available for benefits:		
	<hr/>	<hr/>
Beginning of year	119,677,317	114,932,553
	<hr/>	<hr/>
End of year	<u>\$ 138,257,508</u>	<u>\$ 119,677,317</u>

The accompanying notes are an integral part of these financial statements.

1. DESCRIPTION OF PLAN

The following is a brief description of the Gibraltar 401(k) Plan (the Plan) and is provided for general information purposes only. Participants should refer to the Plan Document and Summary Plan Description for more complete information.

General

The Plan is a defined contribution plan as permitted under Section 401(k) of the Internal Revenue Code. The Plan is sponsored by Gibraltar Steel Corporation of New York (the Company), a subsidiary of Gibraltar Industries, Inc., for the benefit of eligible employees of the Company and its affiliates. The Company is the Plan Administrator, through the Gibraltar 401(k) Retirement Plan Committee. The Plan is subject to the Employee Retirement Income Security Act of 1974, as amended. The 401(k) Retirement Plan Committee is responsible for oversight of the Plan and determines the appropriateness of the Plan's investment offerings, monitors investment performance and reports to the Company's Board of Directors.

Eligibility

All employees of the Company, those affiliates of the Company which have adopted the Gibraltar 401(k) Plan, and employees subject to a collective bargaining agreement that provides for coverage under the Plan, are eligible to participate in the Plan following the completion of six months of participation service.

Participant Contributions

Participants may contribute up to 100% of their annual compensation, not to exceed the ceiling imposed by the Internal Revenue Service of \$18,000 for 2017 and 2016, as prescribed by the Plan Document. If a participant is age 50 or over, the ceiling increased to \$24,000 for 2017 and 2016. The Plan provides an Automatic Enrollment feature for employees hired on or after January 1, 2016, who do not affirmatively make an elective deferral to the Plan, to automatically have three percent (3%) withheld each pay period and contributed to the Plan's Qualified Default Investment Alternative (QDIA) as a pre-tax deferral after the plan's six (6) month waiting period.

The Plan accepts participant-directed Roth Elective Deferrals, Roth Rollovers, Roth In-Plan Conversions, Pre-Tax Deferrals and Pre-Tax Rollovers.

Employer Contribution

The Company matches contributions to the Plan equal to 100% of the first 3% of the participants' elective deferrals and 50% of the following 2% of the participants' elective deferrals at the time of salary reduction. The Company match for employees subject to a collective bargaining agreement follows the terms of their respective agreement.

Plan Merger

On March 1, 2017, certain assets of the Nexus Corporation 401(k) Savings Plan (the "Nexus Plan") were transferred into the Plan with a total fair market value of \$6,732,305 as of the date of transfer. There were no plan mergers in 2016.

Gibraltar 401(k) Plan
Notes to Financial Statements

Administration

Fidelity Management Trust Company is the Plan Trustee, record keeper, and served as the custodian of the Plan's assets for the years ended December 31, 2017 and 2016. The Administrator of the Plan may specify whether the investments of the Trust Fund shall be managed in whole or in part by the Trustee, one or more investment managers, the Administrator, or the participants as provided for by the Trust Agreement.

Plan Termination

Although it has not expressed any intent to do so, the Company has the right to terminate, amend, or modify the Plan at any time subject to the provisions of ERISA.

Participant Accounts

Separate accounts are maintained for each plan participant. Each participant's account is credited with the participant's contribution and an allocation of the Company's contribution and Plan earnings and charged with an allocation of administrative expenses. Allocations are based on participant earnings or account balances, as defined. The benefit to which a participant is entitled is the benefit that can be provided from the participant's vested account.

Vesting and Forfeitures

Salary reduction contributions and the earnings thereon are at all times fully vested and non-forfeitable. All active participants are 100% vested in employer contributions.

Benefit Payments

Upon retirement, termination of employment, death or disability, participants or their beneficiaries may elect to receive their account balances in a single sum or in equal annual, or more frequent installments over a period certain not to exceed the life expectancy of the participant or the joint life expectancy of the participant and his beneficiary.

Notes Receivable from Participants

Participants may borrow against their vested account balance subject to the provisions specified in the Plan agreement. Notes receivable shall not exceed five years, except for a maximum of ten years for the purchase of a primary residence. The notes receivable are secured by the vested balance in the participant's account and bear interest at the prime rate plus 1%. Principal and interest are required to be repaid in equal installments over the term of the receivable. Notes receivable from participants are valued at their unpaid principal balance plus any accrued but unpaid interest at December 31, 2017 and 2016. Related fees are recorded as administrative expenses and are expensed when they are incurred. Delinquent participant loans are reclassified as distributions based upon the terms of the Plan Document.

2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Basis of Accounting

The financial statements of the Plan are prepared on the accrual basis of accounting.

Risks and Uncertainties

The Plan provides for various investment options. Investment securities are exposed to various risks, such as interest, market, and credit risks. Due to the level of risk associated with certain investment securities, it is at least reasonably possible that changes in the values of investment securities will occur in the near term and that such changes could materially affect participants' account balances and the amounts reported in the statements of net assets available for benefits.

Use of Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and changes therein and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of additions and deductions during the reporting period. Actual results could differ from those estimates.

Gibraltar 401(k) Plan
Notes to Financial Statements

Investment Valuation and Income Recognition

Participants direct the investment of their contributions into various investment options offered by the Plan. Participants may change their investment allocation on a daily basis. The Plan's investments are reported at fair value. Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. The Plan's 401(k) Retirement Plan Committee determines the Plan's valuation policies utilizing information provided by the investment advisers and custodian. See Note 3 for discussion of the fair value measurements used to value the Plan's investments. Purchases and sales of securities are recorded on a trade-date basis. Interest income is recorded on the accrual basis. Dividends are recorded on the ex-dividend date. Net appreciation included the Plan's gains and losses on investments bought and sold as well as held during the year.

Benefits

Benefits are recorded when paid.

Plan Expenses

All of the costs of administration of the Plan and Trust are paid by the Company or the Participants. Brokerage commissions and similar costs of acquiring or selling securities (if any) that are incurred by the investment funds are borne by the participant. Origination fees for each loan are also borne by the participant. Investment related expenses are included in net appreciation of fair value of investments.

3. FAIR VALUE MEASUREMENTS

FASB ASC Topic 820, "Fair Value Measurements," defines fair value and establishes a valuation hierarchy for disclosure of the inputs to valuation used to measure fair value. This hierarchy prioritizes the inputs into three broad levels as follows: Level 1 inputs are quoted prices (unadjusted) in active markets for identical assets or liabilities that the Plan can access at the measurement date. Level 2 inputs are quoted prices to similar assets and liabilities in active markets or inputs that are observable for the asset or liability, either directly or indirectly through market corroboration, for substantially the full term of the financial instrument. Level 3 inputs are unobservable inputs based on our own assumptions used to measure assets and liabilities at fair value. A financial asset or liability's classification within the hierarchy is determined based on the lowest level input that is significant to the fair value measurement. Valuation techniques used need to maximize the use of observable inputs and minimize the use of unobservable inputs. Following is a description of the valuation techniques used for assets measured at fair value. There have been no changes in the methodologies used at December 31, 2017 and 2016.

Shares of Registered Investment Companies

These investments are valued at the net asset value of shares held by the registered investment companies at year-end. The investments are measured at fair value using quoted prices for identical assets, which are readily available Level 1 inputs.

Common Collective Trust

This investment is comprised of fully benefit-responsive investment contracts issued by insurance companies and other financial institutions ("Contracts"), fixed income securities, and money market funds. Under the terms of the Contracts, the assets of the fund are invested in fixed income securities (which may include, but are not limited to, U.S. Treasury and agency bonds, corporate bonds, mortgage-backed securities, commercial mortgage-backed securities, asset backed securities, and collective investment vehicles and shares of investment companies that invest primarily in fixed income securities) and shares of money market funds. The net asset value (NAV) is used as a practical expedient to estimate fair value. This practical expedient would not be used if it is determined to be probable that the common collective trust will sell the investment for an amount different from the reported NAV. Participant transactions (purchases and sales) may occur daily.

Employer Securities

These investments consist of a fund composed of employer securities valued at the closing price reported on the active market on which the individual securities are traded. As a result, the value of the investment is based on Level 1 inputs.

Gibraltar 401(k) Plan
Notes to Financial Statements

Cash Equivalents

These investments are primarily composed of money market funds. Money market funds are public investment vehicles valued using \$1 for the net asset value and are classified within Level 1 of the valuation hierarchy.

Self-Directed Brokerage Funds

This investment consists of mutual funds and common stocks valued at readily determinable market prices of the associated investment. As a result, the value of the investment is based on Level 1 inputs.

The preceding methods described may produce a fair value calculation that may not be indicative of net realizable value or reflective of future fair values. Furthermore, although the Plan believes its valuation methods are appropriate and consistent with other market participants, the use of different methodologies or assumptions to determine the fair value of certain financial instruments could result in a different fair value measurement at the reporting date.

The following table provides the assets carried at fair value measured on a recurring basis as of December 31, 2017:

	Level 1	Level 2	Level 3	Total
Shares of registered investment companies	\$ 122,212,695	\$ —	\$ —	\$ 122,212,695
Common collective trust (1)	—	—	—	3,021,211
Employer securities	2,627,724	—	—	2,627,724
Cash equivalents	—	5,237,650	—	5,237,650
Self-directed brokerage	2,461,839	—	—	2,461,839
Total assets at fair value	\$ 127,302,258	\$ 5,237,650	\$ —	\$ 135,561,119

The following table provides the assets carried at fair value measured on a recurring basis as of December 31, 2016:

	Level 1	Level 2	Level 3	Total
Shares of registered investment companies	\$ 101,504,157	\$ —	\$ —	\$ 101,504,157
Common collective trust (1)	—	—	—	3,809,323
Employer securities	3,505,866	—	—	3,505,866
Cash equivalents	—	5,477,094	—	5,477,094
Self-directed brokerage	2,077,636	—	—	2,077,636
Total assets at fair value	\$ 107,087,659	\$ 5,477,094	\$ —	\$ 116,374,076

NOTE (1): In accordance with FASB ASC 820-10, certain investments that are measured at fair value using the net asset value per share (or its equivalent) practical expedient have not been classified in the fair value hierarchy. The fair value amounts presented in this table are intended to permit reconciliation of the fair value hierarchy to the amounts presented in the statements of net assets available for benefits.

Gibraltar 401(k) Plan
Notes to Financial Statements

The following table summarizes investments measured at fair value based on NAV per share as of December 31, 2017 and 2016, respectively. There are no participant redemption restrictions for these investments; the redemption notice period is applicable only to the Plan.

December 31, 2017	Fair Value	Unfunded Commitments	Redemption Frequency (if currently eligible)	Redemption Notice Period
Common collective trust	\$ 3,021,211	N/A	Daily	12 months

December 31, 2016	Fair Value	Unfunded Commitments	Redemption Frequency (if currently eligible)	Redemption Notice Period
Common collective trust	\$ 3,809,323	N/A	Daily	12 months

4. TAX STATUS

The Internal Revenue Service (IRS) has determined and informed the Company by a letter dated January 8, 2018 that the Plan and related Trust, are designed in accordance with the Internal Revenue Code (the Code). Although the Plan has been amended since receiving the determination letter, the Plan Administrator and the Plan's tax counsel believe that the Plan is designed, and is currently being operated, in compliance with the applicable requirements of the Code and, therefore, believe that the Plan is qualified and the related Trust is tax-exempt.

5. PARTIES IN INTEREST

At December 31, 2017 and 2016, certain Plan investments are managed by Fidelity Management Trust Company, the Plan's trustee, and therefore these transactions qualify as party-in-interest transactions. The Plan also allows participants to elect to invest in the common stock of Gibraltar Industries, Inc. Transactions in such investments qualify as party-in-interest transactions which are exempt from the prohibited transaction rules. Fees incurred by the Plan for the investment management and recordkeeping services are included in net appreciation in fair value of the investments, as they are paid through revenue sharing, rather than a direct payment. Investment income from parties-in-interest and interest from participant loans amounted to \$14,599,923 and \$6,555,623 for the years ended December 31, 2017 and 2016, respectively. Fees paid by the Plan for loan processing fees amounted to \$29,749 and \$32,795 for the years ended December 31, 2017 and 2016, respectively. The Plan Sponsor pays directly any other fees related to the Plan's operations.

6. RECONCILIATION OF FINANCIAL STATEMENTS TO FORM 5500

The following is a reconciliation of net assets available for benefits per the financial statements to the Form 5500:

	December 31,	
	2017	2016
Net assets available for benefits per the financial statements	\$ 138,257,508	\$ 119,677,317
Differences in:		
Investments	2,430,852	2,955,517
Notes receivable from participants	(2,430,852)	(2,955,517)
Net assets available for benefits per the Form 5500	<u>\$ 138,257,508</u>	<u>\$ 119,677,317</u>

Gibraltar 401(k) Plan

EIN 16-0991536

Plan #007

Schedule H, Line 4i – Schedule of Assets (Held at End of Year)**December 31, 2017**

Identity of Issuer and Description of Investments	Fair Value
American Beacon Small Cap Value Fund Institutional Class	\$ 1,288,172
Fidelity Contrafund K*	18,288,764
Fidelity Freedom Fund 2005 K *	66,870
Fidelity Freedom Fund K 2010 *	752,337
Fidelity Freedom Fund K 2015 *	3,071,280
Fidelity Freedom Fund K 2020 *	10,218,391
Fidelity Freedom Fund K 2025 *	7,010,900
Fidelity Freedom Fund K 2030 *	8,222,078
Fidelity Freedom Fund K 2035 *	6,038,440
Fidelity Freedom Fund K 2040 *	4,311,740
Fidelity Freedom Fund K 2045 *	2,001,534
Fidelity Freedom Fund K 2050 *	1,257,419
Fidelity Freedom Fund K 2055 *	828,619
Fidelity Freedom Fund K 2060*	145,283
Fidelity Freedom Income K *	639,016
Fidelity Real Estate Index Fund Premium Class*	1,553,956
Fidelity Government Money Market Fund *	5,237,650
Fidelity Spartan 500 Index Fund Advantage Class*	13,213,156
Fidelity Spartan Extended Market Index Fund*	3,671,859
Fidelity Spartan Global XUS Index Fund*	2,820,473
Fidelity Strategic Income Fund*	1,329,512
Fidelity U.S. Bond Index Fund Advantage Class*	1,676,199
Hartford International Opportunities Fund	5,785,060
Invesco Diversified Dividend Fund R5 Class	5,992,960
Loomis Sayles Small Cap Value Fund Class I	4,941,654
PNC Small Cap I	1,520,478
Wells Fargo Advantage Emerging Markets Equity Fund	715,878
Western Asset Core Plus Bond Fund	5,683,951
Vanguard Selected Value Fund	3,866,414
Victory Munder Mid-Cap Core Growth Fund Class R6	5,300,302
Registered Investment Companies and Cash Equivalents Total	127,450,345
Common Collective Trust:	
Fidelity Managed Income Portfolio*	3,021,211
Employer Securities:	
Gibraltar Stock*	2,627,724
Self-directed brokerage:	
Fidelity Brokerage Link*	2,461,839
Notes Receivable from Participants:	
Participant Loans (Interest rates are fixed at prime plus 1% and currently range from 3.25% to 11.00%)*	2,430,852
	\$ 137,991,971

* Indicates Parties in Interest to the Plan.

Exhibit 23.1

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We consent to the incorporation by reference in Registration Statement (No. 33-87034) on Form S-8 of Gibraltar Industries, Inc., formerly known as Gibraltar Steel Corporation, of our report dated June 15, 2018, relating to our audit of the financial statements and supplemental schedule of the Gibraltar 401(k) Plan, which appears in this Annual Report on Form 11-K of the Gibraltar 401(k) Plan for the year ended December 31, 2017.

Freed Maxick CPAs, P.C.

Buffalo, New York
June 15, 2018