

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

FORM 11-K

ANNUAL REPORT PURSUANT TO SECTION 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended December 31, 2017

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

For the Transition Period From _____ to _____

Commission File No. 001-32269

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

Extra Space Management, Inc. 401(k) Plan

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

**Extra Space Storage, Inc.
2795 East Cottonwood Parkway, Suite 300
Salt Lake City, Utah 84121**

**Extra Space Management, Inc. 401(k) Plan
Financial Statements and Supplemental Schedules
Years Ended December 31, 2017 and 2016**

Table of Contents

Report of Independent Registered Public Accounting Firm	3
Audited Financial Statements	
Statements of Net Assets Available for Benefits	5
Statement of Changes in Net Assets Available for Benefits	6
Notes to Financial Statements	7
Supplemental Schedule	
Schedule H, Line 4i - Schedule of Assets (Held at End of Year)	11
Signatures	12
Exhibit 23.1 Consent of Independent Registered Public Accounting Firm	13

Report of Independent Registered Public Accounting Firm

Plan Administrator and Participants
Extra Space Management, Inc. 401(k) Plan
2795 East Cottonwood Parkway, Suite 300
Salt Lake City, Utah 84121

Opinion on the Financial Statements

We have audited the accompanying statements of net assets available for benefits of the Extra Space Management, Inc. 401(k) Plan (the "Plan") as of December 31, 2017 and 2016, the related statement of changes in net assets available for benefits for the year ended December 31, 2017, and the related notes (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 year ended December 31, 2017, 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 Accounting Oversight Board (United States) ("PCAOB") and are required to be independent with respect to the Plan in accordance with the 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 audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Plan is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Plan's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risk 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 the Plan's management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

Supplemental Information

The supplemental information in the accompanying 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 included 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, 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 is fairly stated, in all material respects, in relation to the financial statements as a whole.

/s/ WSRP, LLC

We have served as the Plan's auditor since 2013.

Salt Lake City, Utah

June 25, 2018

**Extra Space Management, Inc. 401(k) Plan
Statements of Net Assets Available for Benefits**

	December 31,	
	2017	2016
Assets		
Investments, at fair value:		
Money market	\$ 3,055,748	\$ 2,573,657
Mutual funds	45,218,079	35,093,295
Extra Space Storage Inc. common stock	3,333,385	2,732,325
Total investments	51,607,212	40,399,277
Receivables:		
Notes receivable from participants	1,515,090	1,577,629
Participant contributions	150,816	125,144
Employer contributions	81,121	68,138
Total receivables	1,747,027	1,770,911
Net assets available for benefits	\$ 53,354,239	\$ 42,170,188

See accompanying notes to financial statements.

**Extra Space Management, Inc. 401(k) Plan
Statement of Changes in
Net Assets Available for Benefits**

**For the Year
Ended
December 31, 2017**

Additions:	
Investment Income	
Net appreciation in fair value of investments	\$ 5,914,178
Interest and dividends	2,085,646
Contributions:	
Participants	4,293,020
Employer	2,213,432
Rollover	159,330
Total contributions	6,665,782
Total additions	14,665,606
Deductions:	
Benefits paid to participants	3,391,630
Administrative expenses	89,925
Total deductions	3,481,555
Increase in net assets available for benefits	11,184,051
Net Assets available for benefits:	
Beginning of the year	42,170,188
End of the year	\$ 53,354,239

See accompanying notes to financial statements.

**Extra Space Management, Inc. 401(k) Plan
Notes to Financial Statements**

1. DESCRIPTION OF PLAN

The following description of the Extra Space Management, Inc. 401(k) Plan (the "Plan") provides only general information. Participants should refer to the Plan agreement for a more complete description of the Plan's provisions.

General

The Plan is a qualified 401(k) defined contribution plan, covering all employees of Extra Space Management, Inc. ("Sponsor") who have reached age 21. Employees are eligible after 90 days of service. The Plan is subject to the provisions of the Employee Retirement Income Security Act of 1974 ("ERISA"), as amended.

Extra Space Storage, Inc. (the "Company") appoints a committee to administer the Plan. As of December 31, 2017, the Plan Administrative Committee was comprised of three members of management, with Fidelity Management Trust Company ("Fidelity" or "Trustee") acting as Trustee.

Contributions

Contributions are made to the Plan by both employees and the Sponsor. Employee contributions to the Plan are deferrals of the employee's compensation made through a direct reduction of compensation in each payroll period. Participating employees may contribute a percentage of their annual compensation up to the lesser of 60% of eligible compensation, or \$18,000. The Plan also provides participants who are age 50 or older by the end of the calendar year, and who are making deferral contributions to the Plan, the option to make catch-up contributions of up to \$6,000 per year. The Sponsor matches 100% of the first 3% of the participant's eligible contribution and 50% of the next 2%. The Plan Sponsor, at its discretion, may make an additional matching contribution, not to exceed 4% of the employee's compensation. Participants direct the investment of their contributions and the Sponsor's match into various investment options offered by the Plan.

Participant Accounts

Each participant's account is adjusted for the participant's contribution, the Sponsor's matching contribution, expenses, and earnings and losses specifically identified with the participant's investment account. The benefit to which a participant is entitled is the benefit that can be provided from the participant's vested account.

Vesting

Participants are immediately vested in their contributions and the Sponsor's matching contributions.

Notes Receivable from Participants

Participants may borrow from their Plan accounts a minimum of \$1,000 and up to a maximum of the lesser of \$50,000 or 50% of their account balance. These loans are subject to a repayment period of no more than five years, unless the loan is withdrawn for the purchase of a participant's primary residence, in which case the repayment period may not extend beyond 10 years. The loans are secured by the balance in the participant's account, and principal and interest payments are paid ratably by the participant through payroll deductions.

Plan Termination

Although it has not expressed any intent to do so, the Sponsor has the right under the Plan to terminate the Plan, subject to the provisions of ERISA. In the event the Plan is terminated, all participant accounts would be distributed among the participants in accordance with the terms set forth in the Plan.

Extra Space Management, Inc. 401(k) Plan
Notes to Financial Statements - *Continued*

Payment of Benefits

Upon termination of service due to death, disability, or retirement, a participant may receive a lump-sum amount equal to the vested benefits in his or her account. Under certain circumstances, including financial hardship, participants may withdraw their contributions prior to the occurrence of these events. The Trustee makes determinations related to hardship withdrawals. Vested accounts for terminated employees which do not exceed \$5,000 but are greater than \$1,000 are automatically rolled over into an individual retirement account. Accounts which are less than \$1,000 are automatically distributed in a lump sum.

2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Investment Options

The Plan's assets are invested in various investment options offered by the Trustee and in stock of the Company, as directed by Participants. Participants may change their investment options at will.

Basis of Accounting

The accompanying financial statements of the Plan are prepared using the accrual method of accounting in accordance with U.S. generally accepted accounting principles ("U.S. GAAP").

Estimates

The preparation of financial statements in conformity with U.S. GAAP requires the Plan administrators to make estimates and assumptions that affect certain reported amounts and disclosures. Accordingly, actual results may differ from those estimates. Certain of those key estimates include the fair value of investments.

Investment Valuation and Income Recognition

The Plan's valuation methodology used to measure the fair values of mutual funds and common stocks was derived from quoted market prices as all of these instruments have active markets. The money market portfolio is stated at cost, which approximates fair value.

Net appreciation in the fair value of investments includes realized and unrealized gains (losses) on investments, and is recognized in income. Net unrealized gains (losses) represent the difference between the book value (which represents the prior year ending fair value, or cost if the investment was purchased during the year) and the fair value of investments held at year-end. 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. Dividends and interest are reinvested as earned.

Administrative Expenses

The Sponsor pays all administrative expenses of the Plan, except for the loan processing fees and the fees associated with additional participant services provided by Global Retirement Partners, LLC ("Advisor"). The fees associated with loan processing and additional services by the Advisor are paid by the participant's account. Total administrative fees paid by the Sponsor were \$89,925 for the year ended December 31, 2017.

Payment of Benefits

Benefits are recorded when paid by the Plan.

Extra Space Management, Inc. 401(k) Plan
Notes to Financial Statements - Continued

Notes Receivable from Participants

Notes receivable from participants are recorded at their unpaid principal balance plus any accrued but unpaid interest. Interest income is recognized over the terms of the notes at the rate specified in the loan documents. As of December 31, 2017, outstanding loans totaled \$1,515,090 with interest rates ranging from 4.25 to 5.25% and maturity dates ranging from January 10, 2018 to December 1, 2026. Fees related to notes receivable from participants are recorded as administrative expenses when incurred. If a participant defaults, the carrying amount of the note receivable from the participant is eliminated and a benefit payment is recorded at that time. Notes receivable from participants are considered delinquent when payments are not made in accordance with the terms of the note and are evaluated to determine if they are in default.

Fair Value Measurements

The Plan reports investments in accordance with established authoritative guidance, which requires a three-level valuation hierarchy for disclosure of fair value measurements. The valuation hierarchy is based upon the transparency of inputs to the valuation of an asset or liability as of the measurement date.

The three levels are defined as follows:

Level 1 inputs are unadjusted quoted market prices in active markets for identical assets or liabilities that are accessible at the measurement date.

Level 2 inputs are from other than quoted market prices included in Level 1 that are observable for the asset or liability, either directly or indirectly, such as quoted prices for similar assets or liabilities in active markets, quoted prices in markets that are not active, or other inputs that are observable or can be corroborated by observable market data.

Level 3 inputs are unobservable and significant to the valuation methodology.

All investments in the Plan are valued using Level 1 inputs and are summarized below for the end of the year indicated.

	December 31,	
	2017	2016
Mutual Funds	\$ 45,218,079	\$ 35,093,295
Money market accounts	3,055,748	2,573,657
Extra Space Storage, Inc. Common Stock	3,333,385	2,732,325
Total Investments	\$ 51,607,212	\$ 40,399,277

The Plan's valuation methodology used to measure the fair values of mutual funds, money market and common stocks were derived from quoted market prices as all of these instruments have active markets.

Extra Space Management, Inc. 401(k) Plan
Notes to Financial Statements - Continued

3. PARTY-IN-INTEREST TRANSACTIONS

As of December 31, 2017, the Plan's assets consisted of mutual funds issued by the Trustee and participant loans extended to participants. The Trustee is considered a party-in-interest because it manages the Plan's assets. Participants are also considered parties-in-interest.

Transactions associated with the shares of common stock of the Company are also considered exempt party-in-interest transactions. As of December 31, 2017, the Plan held 38,098 shares of Company common stock. Total outstanding Company common stock as of December 31, 2017, was 126,007,091 shares.

During the year ended December 31, 2017, the Plan had the following transactions involving the Company's common stock:

Shares purchased		6,910
Shares sold		(4,166)
Cost of shares purchased	\$	541,377
Gain realized on shares sold	\$	1,115
Dividend income earned	\$	114,422

4. RISKS AND UNCERTAINTIES

The Plan provides for investment in various investment securities. In general, these securities are exposed to various risks, such as interest rate, market, and credit in addition to changes in economic conditions. Due to the level of risk associated with certain investment securities, it is reasonably possible that changes in the values of investment securities will occur in the near term and that such change could materially affect the amounts reported in the accompanying statements of net assets available for benefits.

5. INCOME TAX STATUS

The Plan has adopted a non-standardized prototype plan for which the Internal Revenue Service has issued an opinion letter dated March 31, 2008, covering the qualification of the Plan under the appropriate sections of the Internal Revenue Code. The Plan Administrators believe that the Plan continues to operate in accordance with the requirements to qualify for tax-exempt status. Accordingly, no provision for income taxes is included in the accompanying financial statements.

Management evaluates tax positions taken by the Plan and recognizes a tax liability (or asset) if the Plan has taken an uncertain position that more likely than not would be sustained upon examination by taxing authorities. Plan management has concluded that as of December 31, 2017, there are no uncertain tax positions that require either recognition or disclosure in the financial statements. The Plan is subject to routine audits by taxing authorities for tax years for which the applicable statutes of limitations have not expired. To the plan administrator's knowledge there are currently no audits for any tax periods in progress.

**Extra Space Management, Inc. 401(k) Plan
Schedule H, Line 4i
Schedule of Assets (Held at End of Year)**

**December 31, 2017
Employer Identification Number: 87-0405300
Plan Number: 001**

(a) Party In Interest	(b) Identity of Issue	(c) Description of Investments	(e) Current Value
*	EXTRA SPACE STOCK	Common Stock	\$ 3,333,385
	ALGER CAP APPREC I	Mutual Fund	4,714,405
	CONESTOGA SM CAP IS	Mutual Fund	1,856,998
*	FID 500 INDEX PR	Mutual Fund	6,823,920
*	FID BALANCED	Mutual Fund	2,435,855
*	FID EXT MKT IDX PR	Mutual Fund	156,779
*	FID FREEDOM 2005 K	Mutual Fund	66,026
*	FID FREEDOM 2010 K	Mutual Fund	172,183
*	FID FREEDOM 2015 K	Mutual Fund	197,207
*	FID FREEDOM 2020 K	Mutual Fund	1,349,830
*	FID FREEDOM 2025 K	Mutual Fund	934,963
*	FID FREEDOM 2030 K	Mutual Fund	1,466,175
*	FID FREEDOM 2035 K	Mutual Fund	1,478,897
*	FID FREEDOM 2040 K	Mutual Fund	2,418,208
*	FID FREEDOM 2045 K	Mutual Fund	1,939,770
*	FID FREEDOM 2050 K	Mutual Fund	1,569,937
*	FID FREEDOM 2055 K	Mutual Fund	653,174
*	FID FREEDOM 2060 K	Mutual Fund	152,284
*	FID FREEDOM INC K	Mutual Fund	84,724
*	FID GOVT MMKT	Money Market	3,055,748
*	FID INTL DISCOVERY	Mutual Fund	3,211,017
*	FID INTL INDEX PR	Mutual Fund	711,183
*	FID SM CAP IDX PR	Mutual Fund	1,826,905
	FKLN NAT RESRC A	Mutual Fund	476,017
	INVS DIVRS DIVD Y	Mutual Fund	1,399,852
	IVY INTL CORE EQ N	Mutual Fund	65,085
	J H ENTERPRISE N	Mutual Fund	3,290,667
	PIMCO COMM REL RET A	Mutual Fund	163,906
	PRU ST CORP BOND Q	Mutual Fund	25,383
	PRU TOT RETURN BD Z	Mutual Fund	4,046,279
	UM BEHAVIORAL VAL L	Mutual Fund	86,379
	VICTORY S ESTB VAL I	Mutual Fund	1,444,070
	Loans to participants, at cost, which approximates fair value, at interest rates of 4.25% to 5.25% and maturities ranging from January 10, 2018 to December 1, 2026.		1,515,090
			<u>\$ 53,122,302</u>

* Denotes a party-in-interest as defined by ERISA.

Note: Column (d), cost, has been omitted as all investments are participant directed

SIGNATURES

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

Extra Space Management, Inc. 401(k) Plan

Date: June 25, 2018

/s/ P. Scott. Stubbs

P. Scott Stubbs

*Executive Vice President and Chief Financial Officer
(Principal Financial Officer)*

Consent of Independent Registered Public Accounting Firm

Extra Space Management, Inc. 401(k) Plan
Salt Lake City, Utah

We hereby consent to the incorporation by reference in the Registration Statement on Form S-8 (33-204010) of Extra Space Storage, Inc. of our report dated June 25, 2018, relating to the financial statements and supplemental schedule of Extra Space Management, Inc. 401(k) Plan which appear in this Form 11-K for the year ended December 31, 2017.

/s/ WSRP
Salt Lake City, Utah
June 25, 2018