



# 2018 ANNUAL REPORT



## Dear Fellow Shareholders,

Better-than-expected job and wage growth, accelerating household formation, and strong execution by our operations team produced better-than-expected financial and operating results for AvalonBay in 2018. Core FFO of \$9.00 per share was \$0.07 per share above our initial outlook<sup>(1)</sup>. Same-store revenue increased 2.5%, which was approximately 40 basis points above our initial outlook, and same-store net operating income increased 2.3%, which was 30 basis points above our initial outlook.

### INVESTMENT ACTIVITY

Our development and construction teams were busy in 2018. We completed the development of seven new communities containing over 1,900 apartment homes, representing \$740 million in total capitalized cost. These new communities are projected to generate a weighted average initial stabilized yield of 6.4%, 10 basis points above our original expectations. In addition, we commenced the construction of eight new communities that we expect to contain over 2,100 apartment homes, representing \$720 million in projected total capitalized cost.

It was a similarly active year for our transaction markets team. We sold eight wholly-owned apartment communities and contributed five apartment communities located in New York City to a newly formed joint venture in which the Company retained a 20% interest, raising over \$1.2 billion in net proceeds. Simultaneously, the team increased our presence in our expansion markets. In Southeast Florida, we purchased The Alexander and Alexander Lofts, a community containing 290 apartment homes located in West Palm Beach. In the Denver metropolitan area, we acquired two communities, Ironwood at Red Rocks, a community containing 256 apartment homes located in Littleton, and The Meadows, a community containing 240 apartment homes located in Castle Rock. Collectively, this transaction activity brought us closer to achieving our long-term geographic portfolio allocation goals and provided an attractive source of capital to fund new development.

### SUSTAINABILITY

Throughout 2018, we further advanced our Environmental, Social and Governance (ESG) leadership position. We achieved six new Leadership in Energy and Environmental Design (LEED) certifications, bringing our portfolio total to 49 third-party environmentally certified communities. Our renewable energy platform is off to a strong start. At year-end 2018, eight communities were producing a total of 845kW of solar electricity annually, while another 34 communities were being evaluated for solar panel installation. Furthermore, in February 2019, we announced our commitment to setting science-based emissions reduction targets to be approved by the Science-Based Targets initiative (SBTi). Science-based targets provide companies with a defined path outlining the magnitude and speed by which their greenhouse gas emissions need to be reduced. Our commitment to science-based targets demonstrates the strong position that AvalonBay is taking on environmental sustainability and a low-carbon future.

Our ESG efforts were recognized in 2018. The Global Real Estate Sustainability Benchmark (GRESB) recognized AvalonBay as an industry leader, again, awarding the Company four “Green Stars.” In addition, we were included on Corporate Responsibility Magazine’s 100 Best Global Corporate Citizens list for the first time, and the Company became a constituent of the FTSE4Good Index Series.

### CULTURE & CUSTOMER SATISFACTION

AvalonBay associates remain unified by our purpose of creating a better way to live and pride themselves on creating experiences that our customers value. This is reflected in how both associates and customers rate their experience with us.

Our 2018 Associate Perspective Survey, which was conducted by a third-party firm, placed us among the top 10% of companies for associate engagement among companies surveyed by that firm. Also, for the second consecutive year, we ranked among

Glassdoor's Top 100 Best Places to Work in the U.S. based on ratings and reviews of employees.

This high level of associate engagement helped us achieve a 500 basis point increase in our Net Promoter Score (NPS) during 2018, our principal customer satisfaction and loyalty metric. Customers also shared their opinions about AvalonBay in over 8,000 new online reviews on sites like Google and Facebook at an average rating of 4.5 out of 5, ranking us #1 for online reputation among public multifamily REITs by J. Turner Research for a third consecutive year.

### LOOKING AHEAD

We believe the U.S. economy will continue to expand in 2019, albeit at a moderating pace as the year progresses.

We expect apartment demand to remain strong, supported by (i) a healthy labor market, (ii) favorable demographics, and (iii) further delays in family formation (e.g., marriage, children). We project the volume of new market rate apartment deliveries as a percentage of existing market rate apartment stock to increase modestly in our markets relative to 2018. Taken together, we expect 2019 same-store revenue to increase 3.0%, a 50 basis point improvement from 2018.

We plan to commence construction on approximately \$950 million of new apartment communities in 2019. These communities are primarily located in more supply-constrained, infill suburban submarkets, where we believe development economics are currently most attractive. At year-end 2018, our Development Rights pipeline was composed of 28 future development opportunities, representing approximately \$4 billion in projected total capital investment. Importantly, these future growth opportunities were controlled through a very modest investment of \$125 million, including land held for development and invested pursuit costs. We plan to continue to structure new development opportunities primarily as longer-term purchase contracts with modest at-risk deposits to preserve investment flexibility as the economic cycle matures.

We remain focused on match-funding new development commitments with long-term capital.

This approach allows us to lock in the spread between the projected development return and our cost of capital and mitigates risk arising from changes in the capital markets. At year-end 2018, we were approximately 75% match-funded against our existing development commitments.

Finally, our balance sheet is strong and well positioned. At year-end 2018, Net Debt-to-Core EBITDAre was 4.6x and Unencumbered NOI stood at 91%.

### CONCLUSION

By all accounts, 2018 was a better-than-expected year for AvalonBay. Our financial and operating results exceeded initial expectations and we advanced our leadership position in several important areas of the business, including ESG impact, associate engagement and customer service.

In 2019, we expect apartment market fundamentals to support healthy growth within our stabilized portfolio, and we plan to continue maximizing optionality as we pursue new growth opportunities, while maintaining balance sheet strength and flexibility.

Lastly, 2018 marked our 25-year anniversary as a publicly traded company and we commemorated the occasion by ringing the New York Stock Exchange's closing bell on November 12th. We have enjoyed tremendous success since our initial public offering, having delivered a 12.9% annual return<sup>(2)</sup> to our shareholders while the S&P 500 annual return over the same period was 9.1%. Our accomplishments as a publicly traded company would not be possible without the support of our associates, shareholders, business partners and residents – and for that, I say thank you.

Sincerely,



Timothy J. Naughton

Chairman and CEO

### NOTES

1. **Initial (2018) outlook** as provided by the Company on January 31, 2018.
2. **Annual return** (total shareholder return) is calculated by S&P Global Market Intelligence as the change in the value over the period stated with all dividends reinvested. Annual return is presented as the compound annual growth rate. Annual return for each year within the timeframe presented may vary.

### DEFINITIONS AND RECONCILIATIONS OF NON-GAAP FINANCIAL MEASURES

#### AND OTHER TERMS USED IN THIS LETTER

**EBITDA, EBITDAre and Core EBITDAre** are considered by management to be supplemental measures of our financial performance. EBITDA is defined by the Company as net income or loss attributable to the Company before interest income and expense, income taxes, depreciation and amortization. EBITDAre is calculated by the Company in accordance with the definition adopted by the Board of Governors of the National Association of Real Estate Investment Trusts ("NAREIT"), as EBITDA plus or minus losses and gains on the disposition of depreciated property, plus impairment write-downs of depreciated property, with adjustments to reflect the Company's share of EBITDAre of unconsolidated entities. Core EBITDAre is the Company's EBITDAre as adjusted for noncore items outlined in the table below. By further adjusting for items that are not considered part of the Company's core business operations, Core EBITDAre can help one compare the core operating and financial performance of the Company between periods. A reconciliation of EBITDA, EBITDAre and Core EBITDAre to net income is as follows (dollars in thousands):

	<b>Q4 2018</b>
Net income	\$ 385,636
Interest expense, net, inclusive of loss on extinguishment of debt, net	69,955
Income tax refund	(247)
Depreciation expense	158,914
<b>EBITDA</b>	<b>\$ 614,258</b>
Gain on sale of communities	(242,532)
Joint venture EBITDAre adjustments	1,413
<b>EBITDAre</b>	<b>\$ 373,139</b>
Gain on other real estate transactions	(9)
Casualty and impairment loss	826
Business interruption insurance proceeds	(26)
Advocacy contributions	2,040
Severance related costs	884
Development pursuit write-offs and expensed transaction costs, net	566
Asset management fee intangible write-off	538
Legal settlements	146
<b>Core EBITDAre</b>	<b>\$ 378,104</b>

**FFO and Core FFO** are considered by management to be supplemental measures of our operating and financial performance. FFO is calculated by the Company in accordance with the definition adopted by NAREIT. FFO, sometimes referred to as Funds From Operations, is calculated by the Company as Net income or loss attributable to common stockholders computed in accordance with GAAP, adjusted for gains or losses on sales of previously depreciated operating communities, cumulative effect of a change in accounting principle, impairment write-downs of depreciable real estate assets, write-downs of investments in affiliates which are driven by a decrease in the value of depreciable real estate assets held by the affiliate and depreciation of real estate assets, including adjustments for unconsolidated partnerships and joint ventures. By excluding gains or losses related to dispositions of previously depreciated operating communities and excluding real estate depreciation (which can vary among owners of identical assets in similar condition based on historical cost accounting and useful life estimates), FFO can help one compare the operating and financial performance of a company's real estate between periods or as compared to different companies. Core FFO is the Company's FFO as adjusted for non-core items outlined in the table below. By further adjusting for items that are not considered part of our core business operations, Core FFO can help one compare the core operating and financial performance of the Company between periods. A reconciliation of Net income attributable to common stockholders to FFO and to Core FFO is as follows (dollars in thousands):

	<b>FULL YEAR 2018</b>
<b>Net income attributable to common stockholders</b>	<b>\$ 974,525</b>
Depreciation - real estate assets, including joint venture adjustments	629,814
Distributions to noncontrolling interests	44
Gain on sale of unconsolidated entities holding previously depreciated real estate	(10,655)
Gain on sale of previously depreciated real estate	(374,976)
<b>FFO attributable to common stockholders</b>	<b>\$ 1,218,752</b>
<b>Adjusting items:</b>	
Joint venture losses	852
Joint venture promote	(925)
Impairment loss on real estate	826
Casualty gain, net on real estate	(612)
Business interruption insurance proceeds	(26)
Lost NOI from casualty losses covered by business interruption insurance	1,730
Loss on extinguishment of consolidated debt	17,492
Advocacy contributions	3,489
Severance related costs	1,466
Development pursuit write-offs and expensed transaction costs, net	1,324
Gain on other real estate transactions	(344)
Legal settlements	513
Income taxes	(251)
<b>Core FFO attributable to common stockholders</b>	<b>\$ 1,244,286</b>
<b>Average shares outstanding - diluted</b>	<b>138,289,241</b>
<b>Earnings per share - diluted</b>	<b>\$ 7.05</b>
<b>FFO per common share - diluted</b>	<b>\$ 8.81</b>
<b>Core FFO per common share - diluted</b>	<b>\$ 9.00</b>

**Net Debt-to-Core EBITDAre** is calculated by the Company as total debt that is consolidated for financial reporting purposes, less consolidated cash and cash in escrow, divided by annualized fourth quarter 2018 Core EBITDAre. A calculation of Net Debt-to-Core EBITDAre is as follows (dollars in thousands):

	<b>Q4 2018</b>
Total debt principal	\$ 7,102,355
Cash and cash in escrow	(217,864)
<b>Net debt</b>	<b>\$ 6,884,491</b>
Core EBITDAre	\$ 378,104
Core EBITDAre, annualized	\$ 1,512,416
<b>Net Debt-to-Core EBITDAre</b>	<b>4.6x</b>

**NOI** (net operating income) is defined by the Company as total property revenue less direct property operating expenses (including property taxes), and excluding corporate-level income (including management, development and other fees), corporate-level property management and other indirect operating expenses, investments and investment management expenses, expensed transaction, development and other pursuit costs, net of recoveries, interest expense, net, loss (gain) on extinguishment of debt, net, general and administrative expense, joint venture income, depreciation expense, corporate income tax expense, casualty and impairment loss (gain), net, gain on sale of communities, loss (gain) on other real estate transactions and net operating income from real estate assets sold or held for sale. The Company considers NOI to be an important and appropriate supplemental performance measure to Net Income of operating performance of a community or communities because it helps both investors and management to understand the core operations of a community or communities prior to the allocation of any corporate-level property management overhead or financing-related costs. NOI reflects the operating performance of a community, and allows for an easier comparison of the operating performance of individual assets or groups of assets. In addition, because prospective buyers of real estate have different financing and overhead structures, with varying marginal impact to overhead as a result of acquiring real estate, NOI is considered by many in the real estate industry to be a useful measure for determining the value of a real estate asset or groups of assets.

**Projected NOI** represents management's estimate of projected stabilized rental revenue minus projected stabilized operating expenses. Projected NOI is calculated based on the first twelve months of Stabilized Operations following the completion of construction. Projected stabilized rental revenue represents management's estimate of projected gross potential minus projected stabilized economic vacancy and adjusted for projected stabilized concessions plus projected stabilized other rental revenue. Projected stabilized operating expenses do not include interest, income taxes (if any), depreciation or amortization, or any allocation of corporate-level property management overhead or general and administrative costs. In addition, projected stabilized operating expenses do not include property management fee expense. Projected gross potential for Development Communities is generally based on leased rents for occupied homes and management's best estimate of rental levels for homes which are currently unleased, as well as those homes which will become available for lease during the twelve-month forward period used to develop Projected NOI.

**Stabilized Operations** is defined as the earlier of (i) attainment of 95% physical occupancy or (ii) the one-year anniversary of completion of development or redevelopment.

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

FORM 10-K  
ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d)  
OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended December 31, 2018

Commission file number 1-12672

AVALONBAY COMMUNITIES, INC.

(Exact name of registrant as specified in its charter)

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

**77-0404318**  
(I.R.S. Employer  
Identification No.)

**Ballston Tower**  
**671 N. Glebe Rd, Suite 800**  
**Arlington, Virginia 22203**  
(Address of principal executive offices, including zip code)  
**(703) 329-6300**  
(Registrant's telephone number, including area code)

Securities registered pursuant to Section 12(b) of the Act:

(Title of each class)	(Name of each exchange on which registered)
Common Stock, par value \$.01 per share	New York Stock Exchange

Securities registered pursuant to Section 12(g) of the Act: None

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act.

Yes  No

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act.

Yes  No

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 twelve (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  No

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit such files).

Yes  No

Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K is not contained herein, and will not be contained, to the best of registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K.

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

Large accelerated filer

Accelerated filer

Non-accelerated filer

Smaller reporting company

Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

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

Yes  No

The aggregate market value of the registrant's Common Stock, par value \$.01 per share, held by nonaffiliates of the registrant, as of June 30, 2018 was \$23,656,288,475.

The number of shares of the registrant's Common Stock, par value \$.01 per share, outstanding as of January 31, 2019 was 138,508,567.

**Documents Incorporated by Reference**

Portions of AvalonBay Communities, Inc.'s Proxy Statement for the 2019 annual meeting of stockholders, a definitive copy of which will be filed with the SEC within 120 days after the year end of the year covered by this Form 10-K, are incorporated by reference herein as portions of Part III of this Form 10-K.

**Unencumbered NOI** as calculated by the Company represents **NOI** generated by real estate assets unencumbered by outstanding secured debt as of December 31, 2018 as a percentage of total NOI generated by real estate assets. The Company believes that current and prospective unsecured creditors of the Company view Unencumbered NOI as one indication of the borrowing capacity of the Company. Therefore, when reviewed together with the Company's Interest Coverage, EBITDA and cash flow from operations, the Company believes that investors and creditors view Unencumbered NOI as a useful supplemental measure for determining the financial flexibility of an entity. A calculation of Unencumbered NOI for the year ended December 31, 2018 is as follows (dollars in thousands):

	<b>FULL YEAR 2018</b>
Net income	\$ 974,175
Indirect operating expenses, net of corporate income	76,522
Investments and investment management expense	7,709
Expensed transaction, development and other pursuit costs, net of recoveries	4,309
Interest expense, net	220,974
Loss on extinguishment of debt, net	17,492
General and administrative expense	56,205
Joint venture income	(15,270)
Depreciation expense	631,196
Casualty and impairment loss, net	215
Gain on sale of communities	(374,976)
Gain on other real estate transactions	(345)
NOI from real estate assets sold or held for sale	(58,620)
<b>NOI</b>	<b>\$ 1,539,586</b>
Total Established	\$ 1,165,509
Other Stabilized	178,172
Redevelopment	143,471
Development	52,434
<b>NOI</b>	<b>\$ 1,539,586</b>
NOI for Established Communities	\$ 1,165,509
NOI for Other Stabilized Communities	178,172
NOI for Redevelopment Communities	143,471
NOI for Development Communities	52,434
NOI from real estate assets sold or held for sale	58,620
<b>Total NOI generated by real estate assets</b>	<b>\$ 1,598,206</b>
NOI on encumbered assets	142,271
NOI on unencumbered assets	\$ 1,455,935
<b>Unencumbered NOI</b>	<b>91%</b>

**Weighted average initial projected stabilized yield** is calculated by the Company as **Projected NOI** as a percentage of total capitalized cost (weighting is based on the Company's share of the total capitalized cost of each community).

TABLE OF CONTENTS

	<u>PAGE</u>
<u>PART I</u>	
<u>ITEM 1. BUSINESS</u>	<u>1</u>
<u>ITEM 1A. RISK FACTORS</u>	<u>7</u>
<u>ITEM 1B. UNRESOLVED STAFF COMMENTS</u>	<u>17</u>
<u>ITEM 2. COMMUNITIES</u>	<u>18</u>
<u>ITEM 3. LEGAL PROCEEDINGS</u>	<u>30</u>
<u>ITEM 4. MINE SAFETY DISCLOSURES</u>	<u>30</u>
<u>PART II</u>	
<u>ITEM 5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES</u>	<u>31</u>
<u>ITEM 6. SELECTED FINANCIAL DATA</u>	<u>32</u>
<u>ITEM 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS</u>	<u>36</u>
<u>ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK</u>	<u>58</u>
<u>ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA</u>	<u>58</u>
<u>ITEM 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE</u>	<u>58</u>
<u>ITEM 9A. CONTROLS AND PROCEDURES</u>	<u>58</u>
<u>ITEM 9B. OTHER INFORMATION</u>	<u>59</u>
<u>PART III</u>	
<u>ITEM 10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE</u>	<u>60</u>
<u>ITEM 11. EXECUTIVE COMPENSATION</u>	<u>60</u>
<u>ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS</u>	<u>60</u>
<u>ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS, AND DIRECTOR INDEPENDENCE</u>	<u>61</u>
<u>ITEM 14. PRINCIPAL ACCOUNTING FEES AND SERVICES</u>	<u>61</u>
<u>PART IV</u>	
<u>ITEM 15. EXHIBITS, FINANCIAL STATEMENT SCHEDULE</u>	<u>62</u>
<u>ITEM 16. FORM 10-K SUMMARY</u>	<u>62</u>
<u>SIGNATURES</u>	<u>66</u>

PART I

This Form 10-K contains forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934. Our actual results could differ materially from those set forth in each forward-looking statement. Certain factors that might cause such a difference are discussed in this report, including in the section entitled “Forward-Looking Statements” included in this Form 10-K. You should also review Item 1A. “Risk Factors” for a discussion of various risks that could adversely affect us.

**ITEM 1. BUSINESS**

*General*

AvalonBay Communities, Inc. (the “Company,” which term, unless the context otherwise requires, refers to AvalonBay Communities, Inc. together with its subsidiaries), is a Maryland corporation that has elected to be treated as a real estate investment trust (“REIT”) for federal income tax purposes. We develop, redevelop, acquire, own and operate multifamily communities primarily in New England, the New York/New Jersey metro area, the Mid-Atlantic, the Pacific Northwest, and Northern and Southern California. We focus on leading metropolitan areas in these regions that we believe are characterized by growing employment in high wage sectors of the economy, higher cost of home ownership and a diverse and vibrant quality of life. We believe these market characteristics offer the opportunity for superior risk-adjusted returns over the long-term on apartment community investments relative to other markets that do not have these characteristics. We believe that Denver, Colorado, and Southeast Florida share these characteristics and we began investing in these markets in 2017.

At January 31, 2019, we owned or held a direct or indirect ownership interest in:

- 269 operating apartment communities containing 78,365 apartment homes in 12 states and the District of Columbia, of which 254 communities containing 74,706 apartment homes were consolidated for financial reporting purposes and 15 communities containing 3,659 apartment homes were held by unconsolidated entities in which we hold an ownership interest. Nine of the consolidated communities containing 3,648 apartment homes were under redevelopment, as discussed below;
- 21 communities under development that are expected to contain an aggregate of 6,609 apartment homes when completed and one mixed-use project being developed in which we are currently pursuing a potential for-sale strategy of individual condominium units; and
- rights to develop an additional 28 communities that, if developed as expected, will contain 9,769 apartment homes.

We generally obtain ownership in an apartment community by developing a new community on either vacant land or land with improvements that we raze, or by acquiring an existing community. In selecting sites for development or acquisition, we favor locations that are near expanding employment centers and convenient to transportation, recreation areas, entertainment, shopping and dining.

Our principal financial goal is to increase long-term shareholder value through the development, redevelopment, acquisition, ownership and, when appropriate, disposition of apartment communities in our markets. To help meet this goal, we regularly (i) monitor our investment allocation by geographic market and product type, (ii) develop, redevelop and acquire interests in apartment communities in our selected markets, (iii) selectively sell apartment communities that no longer meet our long-term strategy or when opportunities are presented to realize a portion of the value created through our investment and redeploy the proceeds from those sales and (iv) endeavor to maintain a capital structure that is aligned with our business risks with a view to maintaining continuous access to cost-effective capital. We pursue our development, redevelopment, investment and operating activities with the purpose of *Creating a Better Way to Live*. Our strategic vision is to be the leading apartment company in select US markets, providing a range of distinctive living experiences that customers value. We pursue this vision by targeting what we believe are among the best markets and submarkets, leveraging our strategic capabilities in market research and consumer insight and being disciplined in our capital allocation and balance sheet management. We operate our apartment communities under three core brands *Avalon*, *AVA* and *Eaves by Avalon*, described in Item 2. “Communities.” We pursue our development and redevelopment activities primarily through in-house development and in-house redevelopment teams, which are complemented by our in-house acquisition platform. We believe that our organizational structure, which includes dedicated development and operational teams in each of our regions, and strong culture are key differentiators, providing us with highly talented, dedicated and capable associates.

During the three years ended December 31, 2018, we acquired 12 apartment communities and disposed of 21 apartment communities, excluding unconsolidated investments and the five wholly-owned communities we contributed to the NYC Joint Venture (as defined below) during 2018. During the three years ended December 31, 2018, we completed the development of 29 apartment communities and the redevelopment of 25 apartment communities.

We have investments in unconsolidated real estate entities with ownership interest percentages ranging from 20.0% to 55.0%, excluding joint ventures formed with Equity Residential as part of the Archstone Acquisition. During the three years ended December 31, 2018, excluding the NYC Joint Venture, we realized our pro rata share of the gain from the sale of 11 communities owned by unconsolidated real estate entities.

During 2018, we contributed five wholly-owned operating communities located in New York, NY, to a newly formed joint venture (the "NYC Joint Venture"). We retained a 20.0% interest in the venture and are acting as the managing member of the venture as well as the property manager for the communities. The five communities contain an aggregate of 1,301 apartment homes and 58,000 square feet of retail space.

On February 27, 2013, pursuant to an asset purchase agreement dated November 26, 2012, the Company, together with Equity Residential, acquired, directly or indirectly, all of the assets owned by Archstone Enterprise LP ("Archstone," which has since changed its name to Jupiter Enterprise LP), including all of the ownership interests in joint ventures and other entities owned by Archstone, and assumed Archstone's liabilities, both known and unknown, with certain limited exceptions. Under the terms of the purchase agreement, the Company acquired approximately 40.0% of Archstone's assets and liabilities and Equity Residential acquired approximately 60.0% of Archstone's assets and liabilities (the "Archstone Acquisition").

A more detailed description of our unconsolidated real estate entities and the related investment activity can be found in the discussion in Note 5, "Investments in Real Estate Entities," of the Consolidated Financial Statements in Item 8 of this report and in Item 7. "Management's Discussion and Analysis of Financial Condition and Results of Operations."

During 2018, excluding the five wholly-owned operating communities contributed to the NYC Joint Venture, we sold 10 operating communities, including sales by unconsolidated entities, and recognized a gain in accordance with U.S. generally accepted accounting principles ("GAAP") of \$205,770,000.

A further discussion of our development, redevelopment, disposition, acquisition, property management and related strategies follows.

*Development Strategy.* We select land for development and follow established procedures that we believe minimize both the cost and the risks of development. As one of the largest developers of multifamily rental apartment communities in our selected markets, we identify development opportunities through local market presence and access to local market information achieved through our regional offices. In addition to our principal executive office in Arlington, Virginia, we also maintain regional offices, administrative offices or specialty offices, including offices that are in or near the following cities:

- Bellevue, Washington;
- Boston, Massachusetts;
- Denver, Colorado;
- Fairfield, Connecticut;
- Irvine, California;
- Iselin, New Jersey;
- Melville, New York;
- Los Angeles, California;
- New York, New York;
- San Diego, California;
- San Francisco, California;
- San Jose, California; and
- Virginia Beach, Virginia.

After selecting a target site, we usually negotiate for the right to acquire the site either through an option or a long-term conditional contract. Options and long-term conditional contracts generally allow us to acquire the target site after the completion of entitlements and shortly before the start of construction, which reduces development-related risks and preserves capital. However, as a result of competitive market conditions for land suitable for development, we have sometimes acquired and held land prior to construction for extended periods while entitlements are obtained, or acquired land zoned for uses other than residential with the potential for rezoning. For further discussion of our Development Rights, refer to Item 2. "Communities" in this report.

We generally act as our own general contractor and construction manager, except for certain mid-rise and high-rise apartment communities, where we may elect to use third-party general contractors as construction managers. We generally perform these functions directly (although we may use a wholly-owned subsidiary) both for ourselves and for the joint ventures and partnerships of which we are a member or a partner. We believe direct involvement in construction enables us to achieve higher construction quality, greater control over construction schedules and cost savings. Our development, property management and construction teams monitor construction progress to ensure quality workmanship and a smooth and timely transition into the leasing and operating phase.

During periods where competition for development land is more intense, we may acquire improved land with existing commercial uses and rezone the site for multifamily residential use. During the period that we hold these buildings for future development, any rent received in excess of expenses from these operations, which we consider to be incidental, is accounted for as a reduction in our investment in the development pursuit and not as net income. Any expenses relating to these operations, in excess of any rents received, are accounted for as a reduction in net income. We have also participated, and may in the future participate, in master planned or other large multi-use developments where we commit to build infrastructure (such as roads) to be used by other participants or commit to act as construction manager or general contractor in building structures or spaces for third parties (such as unimproved ground floor retail space, municipal garages or parks). Costs we incur in connection with these activities may be accounted for as additional invested capital in the community or we may earn fee income for providing these services. Particularly with large scale, urban in-fill developments, we may engage in significant environmental remediation efforts to prepare a site for construction.

Throughout this report, the term "development" is used to refer to the entire property development cycle, including pursuit of zoning approvals, procurement of architectural and engineering designs and the construction process. References to "construction" refer to the actual construction of the property, which is only one element of the development cycle.

*Redevelopment Strategy.* When we undertake the redevelopment of a community, our goal is to renovate and/or rebuild an existing community so that our total investment is generally below replacement cost and the community is well positioned in the market to achieve attractive returns on our capital. We have dedicated redevelopment teams and procedures that are intended to control both the cost and risks of redevelopment. Our redevelopment teams, which include redevelopment, construction and property management personnel, monitor redevelopment progress. We believe we achieve significant cost savings by undertaking the redevelopment primarily through an occupied turn strategy, in which we continue to operate the community as we install improvements in occupied apartment homes, working to minimize any impact on our current residents.

Throughout this report, the term "redevelopment" is used to refer to the entire redevelopment cycle, including planning and procurement of architectural and engineering designs, budgeting and actual renovation work. The actual renovation work is referred to as "reconstruction," which is only one element of the redevelopment cycle.

*Disposition Strategy.* We sell assets that no longer meet our long-term strategy or when real estate market conditions are favorable, and we redeploy the proceeds from those sales to develop, redevelop and acquire communities and to rebalance our portfolio across or within geographic regions. This also allows us to realize a portion of the value created through our investments and provides additional liquidity. We are then able to redeploy the net proceeds from our dispositions in lieu of raising that amount of capital externally. When we decide to sell a community, we generally solicit competing bids from unrelated parties for these individual assets and consider the sales price and other terms of each proposal.

As part of the Archstone Acquisition in 2013, we acquired, and still own, 14 assets that had previously been contributed by third parties on a tax-deferred basis to an Archstone partnership in which the third parties received ownership interests. To protect the tax-deferred nature of the contribution, the third parties are entitled to cash payments if we trigger tax obligations to the third parties by selling, or failing to maintain sufficient levels of secured financing on, the contributed assets. Our tax protection payment obligations with respect to these assets expire at different times and in some cases don't expire until the death of a third party who contributed ownership interests to the Archstone partnership. After review and investigation of Archstone's tax and accounting records, we estimate that, had we sold or taken other triggering actions in 2018 with respect to all 14 assets, the aggregate amount of the tax protection payments that would have been triggered would have been approximately \$48,300,000. At the present time, we do not intend to take actions that would cause us to be required to make tax protection payments with respect to any of these assets.

*Acquisition Strategy.* Our core competencies in development and redevelopment discussed above allow us to be selective in the acquisitions we target. Acquisitions allow us to achieve rapid penetration into markets in which we desire an increased presence. Acquisitions (and dispositions) also help us achieve our desired product mix or rebalance our portfolio. Portfolio growth also allows for fixed general and administrative costs to be a smaller percentage of overall community Net Operating Income ("NOI"). While we have achieved growth in the past through the establishment of discretionary real estate investments funds, which placed certain limitations on our ability to acquire new communities during their investments periods, we are not presently pursuing the formation of a new discretionary real estate investment fund, preferring at this time to maintain flexibility in shaping our portfolio of wholly-owned assets through acquisitions and dispositions.

*Property Management Strategy.* We seek to increase operating income through innovative, proactive property management that will result in higher revenue from communities while constraining operating expenses. Our principal strategies to maximize revenue include:

- focusing on resident satisfaction;
- staggering lease terms such that lease expirations are better matched to traffic patterns;
- balancing high occupancy with premium pricing and increasing rents as market conditions permit; and
- employing revenue management software to optimize the pricing and term of leases.

Constraining growth in operating expenses is another way in which we seek to increase earnings growth. Growth in our portfolio and the resulting increase in revenue allows for fixed operating costs to be spread over a larger volume of revenue, thereby increasing operating margins. We constrain growth in operating expenses in a variety of ways, which include, but are not limited to, the following:

- we use purchase order controls, acquiring goods and services from pre-approved vendors;
- we use national negotiated contracts and also purchase supplies in bulk where possible;
- we bid third-party contracts on a volume basis;
- we strive to retain residents through high levels of service in order to eliminate the cost of preparing an apartment home for a new resident and to reduce marketing and vacant apartment utility costs;
- we perform turnover work in-house or hire third parties, generally considering the most cost effective approach as well as expertise needed to perform the work;
- we undertake preventive maintenance regularly to maximize resident safety and satisfaction, as well as to maximize property and equipment life;
- we have a customer care center, centralizing and improving the efficiency and consistency in the application of our policies for many of the administrative tasks associated with owning and operating apartment communities;
- we aggressively pursue real estate tax appeals; and
- we install high efficiency lighting and water fixtures, cogeneration systems and implement sustainability initiatives in our operating platform.

On-site property management teams receive bonuses based largely upon the revenue, expense, NOI and customer service metrics produced at their respective communities. We use and continuously seek ways to improve technology applications to help manage our communities, believing that the accurate collection of financial and resident data will enable us to maximize revenue and control costs through careful leasing decisions, maintenance decisions and financial management.

We generally manage the operation and leasing activity of our communities directly (although we may use a wholly-owned subsidiary) both for ourselves and the joint ventures and partnerships of which we are a member or a partner. From time to time we may engage a third party to manage leasing and/or maintenance activity at one or more of our communities.

From time to time we also pursue or arrange ancillary services for our residents to provide additional revenue sources or increase resident satisfaction. As a REIT, we generally cannot provide direct services to our residents that are not customarily provided by a landlord, nor can we directly share in the income of a third party that provides such services. However, we can provide such non-customary services to residents or share in the revenue or income from such services if we do so through a "taxable REIT subsidiary," which is a subsidiary that is treated as a "C corporation" subject to federal income taxes. See "Tax Matters" below.

*Financing Strategy.* Our financing strategy is to endeavor to maintain a capital structure that provides financial flexibility to help ensure we can select cost effective capital market options that are well matched to our business risks. We estimate that our short-term liquidity needs will be met from cash on hand, borrowings under our \$1,500,000,000 revolving variable rate unsecured credit facility (the "Credit Facility"), sales of current operating communities and/or issuance of additional debt or equity securities. A determination to engage in an equity or debt offering depends on a variety of factors such as general market and economic conditions, our short and long-term liquidity needs, the relative costs of debt and equity capital and growth opportunities. A summary of debt and equity activity for the last three years is reflected on our Consolidated Statement of Cash Flows of the Consolidated Financial Statements set forth in Item 8 of this report.

We have entered into, and may continue in the future to enter into, joint ventures (including limited liability companies or partnerships) through which we would own an indirect economic interest of less than 100% of the community or communities owned directly by such joint ventures. Our decision to either hold an apartment community in fee simple or to have an indirect interest in the community through a joint venture is based on a variety of factors and considerations, including: (i) the economic and tax terms required by a seller of land or of a community; (ii) our desire to diversify our portfolio of communities by market, submarket and product type; (iii) our desire at times to preserve our capital resources to maintain liquidity or balance sheet strength; and (iv) our projection, in some circumstances, that we will achieve higher returns on our invested capital or reduce our risk if a joint venture vehicle is used. Investments in joint ventures are not limited to a specified percentage of our assets. Each joint venture agreement is individually negotiated, and our ability to operate and/or dispose of a community in our sole discretion may be limited to varying degrees depending on the terms of the joint venture agreement.

In addition, from time to time, we may offer shares of our equity securities, debt securities or options to purchase stock in exchange for property. We may also acquire properties in exchange for properties we currently own.

*Other Strategies and Activities.* While we emphasize equity real estate investments in rental apartment communities, we have the ability to invest in other types of real estate, mortgages (including participating or convertible mortgages), securities of other REITs or real estate operating companies, or securities of technology companies that relate to our real estate operations or of companies that provide services to us or our residents, in each case consistent with our qualification as a REIT. In addition, we own and lease retail space at our communities when either (i) the highest and best use of the space is for retail (e.g., street level in an urban area); (ii) we believe the retail space will enhance the attractiveness of the community to residents or; (iii) some component of retail space is required to obtain entitlements to build apartment homes. As of December 31, 2018, we had a total of approximately 681,000 square feet of rentable retail space, excluding retail space within communities currently under development. Gross rental revenue provided by leased retail space in 2018 was \$26,071,000 (1.1% of total revenue). We may also develop a property in conjunction with another real estate company that will own and operate the retail or for-sale residential components of a mixed-use building or project that we help develop. If we secure a development right and believe that its best use, in whole or in part, is to develop the real estate with the intent to sell rather than hold the asset, we may, through a taxable REIT subsidiary, develop real estate for sale. Any investment in securities of other entities, and any development of real estate for sale, is subject to the percentage of ownership limitations, gross income tests, and other limitations that must be observed for REIT qualification.

We have not engaged in trading, underwriting or agency distribution or sale of securities of other issuers and do not intend to do so. At all times we intend to make investments in a manner so as to qualify as a REIT unless, because of circumstances or changes to the Internal Revenue Code of 1986, as amended (the "Code") (or the Treasury Regulations thereunder), our Board of Directors determines that it is no longer in our best interest to qualify as a REIT.

#### Tax Matters

We filed an election with our 1994 federal income tax return to be taxed as a REIT under the Code and intend to maintain our qualification as a REIT in the future. As a REIT, with limited exceptions, such as those described under "Property Management Strategy" above, we will not be taxed under federal and certain state income tax laws at the corporate level on our taxable net



income to the extent taxable net income is distributed to our stockholders. We expect to make sufficient distributions to avoid income tax at the corporate level. While we believe that we are organized and qualified as a REIT and we intend to operate in a manner that will allow us to continue to qualify as a REIT, there can be no assurance that we will be successful in this regard. Qualification as a REIT involves the application of highly technical and complex provisions of the Code for which there are limited judicial and administrative interpretations and involves the determination of a variety of factual matters and circumstances not entirely within our control.

#### Competition

We face competition from other real estate investors, including insurance companies, pension and investment funds, other REITs, and other well capitalized investors, to acquire and develop apartment communities and acquire land for future development. As an owner and operator of apartment communities, we also face competition for prospective residents from other operators whose communities may be perceived to offer a better location or better amenities or whose rent may be perceived as a better value given the quality, location and amenities that the resident seeks. We also compete against condominiums and single-family homes that are for sale or rent. Although we often compete against large, sophisticated developers and operators for development opportunities and for prospective residents, real estate developers and operators of any size can provide effective competition for both real estate assets and potential residents.

#### Environmental and Related Matters

As a current or prior owner, operator and developer of real estate, we are subject to various federal, state and local environmental laws, regulations and ordinances and also could be liable to third parties resulting from environmental contamination or noncompliance at our communities. For some Development Communities we undertake extensive environmental remediation to prepare the site for construction, which could be a significant portion of our total construction cost. Environmental remediation efforts could expose us to possible liabilities for accidents or improper handling of contaminated materials during construction. These and other risks related to environmental matters are described in more detail in Item 1A. "Risk Factors."

We believe that more government regulation of energy use, along with a greater focus on environmental protection, may, over time, have a significant impact on urban growth patterns. If changes in zoning to encourage greater density and proximity to mass transit do occur, such changes could benefit multifamily housing and those companies with a competency in high-density development. However, there can be no assurance as to whether or when such changes in regulations or zoning will occur or, if they do occur, whether the multifamily industry or the Company will benefit from such changes.

#### Other Information

We file annual, quarterly and current reports, proxy statements and other information with the SEC. You may obtain copies of our SEC filings, free of charge, from the SEC's website at [www.sec.gov](http://www.sec.gov).

We maintain a website at [www.avalonbay.com](http://www.avalonbay.com). Our annual reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K, and amendments to those reports, filed or furnished pursuant to the Securities Exchange Act of 1934 are available free of charge in the "Investor Relations" section of our website as soon as reasonably practicable after the reports are filed with or furnished to the SEC. In addition, the charters of our Board's Nominating and Corporate Governance Committee, Audit Committee and Compensation Committee, as well as our Director Independence Standards, Corporate Governance Guidelines, Code of Business Conduct and Ethics, Policy Regarding Shareholder Rights Agreements, Policy Regarding Shareholder Approval of Future Severance Agreements, Executive Stock Ownership Guidelines, Policy on Political Contributions and Government Relations, Policy for Recoupment of Incentive Compensation, and Sustainability Reports, are available free of charge in that section of our website or by writing to AvalonBay Communities, Inc., Ballston Tower, Suite 800, 671 N. Glebe Rd., Arlington, Virginia 22203, Attention: Chief Financial Officer. To the extent required by the rules of the SEC and the NYSE, we will disclose amendments and waivers relating to these documents in the same place on our website. The information posted on our website is not incorporated into this Annual Report on Form 10-K.

We were incorporated under the laws of the State of California in 1978. In 1995, we reincorporated in the State of Maryland and have been focused on the ownership and operation of apartment communities since that time. As of January 31, 2019, we had 3,087 employees.

## ITEM 1A. RISK FACTORS

Our operations involve various risks that could have adverse consequences, including those described below. This Item 1A. includes forward-looking statements. You should refer to our discussion of the qualifications and limitations on forward-looking statements in this Form 10-K.

#### ***Development, redevelopment, construction and operating risks could affect our profitability.***

We intend to continue to develop and redevelop apartment home communities. These activities can include long planning and entitlement timelines and can involve complex and costly activities, including significant environmental remediation or construction work in high-density urban areas. These activities may be exposed to the following risks:

- we may abandon opportunities that we have already begun to explore for a number of reasons, including changes in local market conditions or increases in construction or financing costs, and, as a result, we may fail to recover expenses already incurred in exploring those opportunities;
- occupancy rates and rents at a community may fail to meet our original expectations for a number of reasons, including changes in market and economic conditions beyond our control and the development by competitors of competing communities;
- we may be unable to obtain, or experience delays in obtaining, necessary zoning, occupancy or other required governmental or third party permits and authorizations, which could result in increased costs or the delay or abandonment of opportunities;
- we may incur costs that exceed our original estimates due to increased material, labor or other costs;
- we may be unable to complete construction and lease-up of a community on schedule, resulting in increased construction and financing costs and a decrease in expected rental revenues;
- we may be unable to obtain financing with favorable terms, or at all, for the proposed development of a community, which may cause us to delay or abandon an opportunity;
- we may incur liabilities to third parties during the development process, for example, in connection with managing existing improvements on the site prior to tenant terminations and demolition (such as commercial space) or in connection with providing services to third parties (such as the construction of shared infrastructure or other improvements); and
- we may incur liability if our communities are not constructed and operated in compliance with the accessibility provisions of the Americans with Disabilities Acts, the Fair Housing Act or other federal, state or local requirements. Noncompliance could result in imposition of fines, an award of damages to private litigants and a requirement that we undertake structural modifications to remedy the noncompliance.

We estimate construction costs based on market conditions at the time we prepare our budgets, and our projections include changes that we anticipate but cannot predict with certainty. Construction costs may increase, particularly for labor and certain materials and, for some of our Development Communities and Development Rights (as defined below), the total construction costs may be higher than the original budget. Total capitalized cost includes all capitalized costs incurred and projected to be incurred to develop or redevelop a community, determined in accordance with GAAP, including:

- land and/or property acquisition costs;
- fees paid to secure air rights and/or tax abatements;
- construction or reconstruction costs;
- costs of environmental remediation;
- real estate taxes;
- capitalized interest and insurance;
- loan fees;
- permits;
- professional fees;
- allocated development or redevelopment overhead; and
- other regulatory fees.

Costs to redevelop communities that have been acquired have, in some cases, exceeded our original estimates and similar increases in costs may be experienced in the future. We cannot assure you that market rents in effect at the time new Development or Redevelopment Communities complete lease-up will be sufficient to fully offset the effects of any increased construction or reconstruction costs.

The construction and maintenance of our communities include a risk of major casualty events that could materially damage our property and the property of others and pose the risk of personal injury. While we carry insurance for such risks in amounts we deem reasonable, we cannot assure that such insurance will be adequate, and when we have incurred and in the future may incur such casualties, we are subject to losses on account of deductibles and self-insured amounts in any event. Such casualties may also expose us in the future to higher insurance premiums, greater construction or operating costs (either voluntarily assumed by us or as a result of new local regulations) and risks to our reputation among prospective residents or municipalities from which we may seek approvals in the future, all of which could have a material adverse effect on our business and our financial condition and results of operations.

***Unfavorable changes in market and economic conditions could adversely affect occupancy, rental rates, operating expenses and the overall market value of our real estate assets.***

Local conditions in our markets significantly affect occupancy, rental rates and the operating performance of our communities. The risks that may adversely affect conditions in those markets include the following:

- corporate restructurings and/or layoffs, industry slowdowns and other factors that adversely affect the local economy;
- an oversupply of, or a reduced demand for, apartment homes;
- a decline in household formation or employment or lack of employment growth;
- the inability or unwillingness of residents to pay rent increases;
- rent control or rent stabilization laws, or other laws regulating housing, that could prevent us from raising rents sufficiently to offset increases in operating costs; and
- economic conditions that could cause an increase in our operating expenses, such as increases in property taxes, utilities, compensation of on-site associates and routine maintenance.

***Rent control and other changes in applicable laws, or noncompliance with applicable laws, could adversely affect our operations or expose us to liability.***

We must develop, construct and operate our communities in compliance with numerous federal, state and local laws and regulations, some of which may conflict with one another or be subject to limited judicial or regulatory interpretations. These laws and regulations may include zoning laws, building codes, landlord/tenant laws and other laws generally applicable to business operations. Noncompliance with laws could expose us to liability.

Lower revenue growth or significant unanticipated expenditures may result from our need to comply with changes in (i) laws imposing remediation requirements and the potential liability for environmental conditions existing on properties or the restrictions on discharges or other conditions, (ii) rent control or rent stabilization laws or other residential landlord/tenant laws or (iii) other governmental rules and regulations or enforcement policies affecting the development, use and operation of our communities, including changes to building codes and fire and life-safety codes.

We have seen a recent increase in municipalities implementing, considering or being urged by advocacy groups to consider rent control or rent stabilization laws and regulations or take other actions that could limit our ability to raise rents based solely on market conditions. For example, in 2016 in Mountain View, California, the voters passed a referendum that limits rent increases on existing tenants (but not on new move-ins) in communities built before 1995. These initiatives and any other future enactments of rent control or rent stabilization laws or other laws regulating multi-family housing, as well as any lawsuits against the Company arising from such rent control or other laws, may reduce rental revenues or increase operating costs. Such laws and regulations may limit our ability to charge market rents, increase rents, evict tenants or recover increases in our operating expenses and could make it more difficult for us to dispose of properties in certain circumstances. Expenses associated with our investment in these communities, such as debt service, real estate taxes, insurance and maintenance costs, are generally not reduced when circumstances cause a reduction in rental income from the community.

***Short-term leases expose us to the effects of declining market rents.***

Substantially all of our apartment leases are for a term of one year or less. Because these leases generally permit the residents to leave at the end of the lease term without penalty, our rental revenues are impacted by declines in market rents more quickly than if our leases were for longer terms.

***Competition could limit our ability to lease apartment homes or increase or maintain rents.***

Our apartment communities compete with other housing alternatives to attract residents, including other rental apartments, condominiums and single-family homes that are available for rent, as well as new and existing condominiums and single-family homes for sale. Competitive residential housing in a particular area could adversely affect our ability to lease apartment homes and to increase or maintain rental rates.

***Attractive investment opportunities may not be available, which could adversely affect our profitability.***

We expect that other real estate investors, including insurance companies, pension and investment funds, other REITs and other well-capitalized investors, will compete with us to acquire existing properties and to develop new properties. This competition could increase prices for properties of the type we would likely pursue and adversely affect our profitability for new investments.

***Capital and credit market conditions may adversely affect our access to various sources of capital and/or the cost of capital, which could impact our business activities, dividends, earnings and common stock price, among other things.***

In periods when the capital and credit markets experience significant volatility, the amounts, sources and cost of capital available to us may be adversely affected. We primarily use external financing to fund construction and to refinance indebtedness as it matures. If sufficient sources of external financing are not available to us on cost effective terms, we could be forced to limit our development and redevelopment activity and/or take other actions to fund our business activities and repayment of debt, such as selling assets, reducing our cash dividend or paying out less than 100% of our taxable income. To the extent that we are able and/or choose to access capital at a higher cost than we have experienced in recent years (reflected in higher interest rates for debt financing or a lower stock price for equity financing), absent changes in other factors, our earnings per share and cash flows could be adversely affected. In addition, the price of our common stock may fluctuate significantly and/or decline in a high interest rate or volatile economic environment. We believe that the lenders under our Credit Facility will fulfill their lending obligations thereunder, but if economic conditions deteriorate, there can be no assurance that the ability of those lenders to fulfill their obligations would not be adversely impacted.

***Insufficient cash flow could affect our debt financing and create refinancing risk.***

We are subject to the risks associated with debt financing, including the risk that our available cash will be insufficient to meet required payments of principal and interest on our debt. In this regard, in order for us to continue to qualify as a REIT, we are required to annually distribute dividends generally equal to at least 90% of our REIT taxable income, computed without regard to the dividends paid deduction and excluding any net capital gain. This requirement limits the amount of our cash flow available to meet required principal and interest payments. The principal outstanding balance on a portion of our debt will not be fully amortized prior to its maturity. Although we may be able to repay our debt by using our cash flows, we cannot assure you that we will have sufficient cash flows available to make all required principal payments. Therefore, we may need to refinance at least a portion of our outstanding debt as it matures. There is a risk that we may not be able to refinance existing debt or that a refinancing will not be done on as favorable terms; either of these outcomes could have a material adverse effect on our financial condition and results of operations.

***Rising interest rates could increase interest costs and could affect the market price of our common stock, and efforts to hedge such risk could be ineffective and cause us to incur costs.***

We currently have, and may in the future incur, contractual variable interest rate debt. In addition, we regularly seek access to both fixed and variable rate debt financing to repay maturing debt and to finance our development and redevelopment activity. Accordingly, if interest rates increase, our interest costs will also rise, unless we have made arrangements that hedge the risk of rising interest rates. In addition, an increase in market interest rates may lead purchasers of our common stock to demand a greater annual dividend yield, which could adversely affect the market price of our common stock.

From time to time we use interest rate derivatives to hedge and manage our exposure to certain interest rate risks. For example, from time to time, when we anticipate issuing debt securities, we may seek to limit our exposure to fluctuations in interest rates during the period prior to issuance of the securities by entering into interest rate hedging contracts. Although these agreements may partially protect against rising interest rates, they also may reduce the benefits to the Company if interest rates decline. The settlement of interest rate hedging contracts has involved and may in the future involve material charges to our earnings. In addition, our use of interest rate hedging arrangements may expose us to additional risks, including a risk that a counterparty to a hedging arrangement may fail to honor its obligations. Developing and implementing an effective interest rate risk strategy is complex and no strategy can completely insulate us from risks associated with interest rate fluctuations. There can be no assurance that our

hedging activities will be effective. Termination of these hedging agreements may involve net costs, such as transaction fees, settlement costs and/or breakage costs.

***Bond financing and zoning and other compliance requirements could limit our income, restrict the use of communities and cause favorable financing to become unavailable.***

We have financed some of our apartment communities with obligations issued by local government agencies because the interest paid to the holders of this debt is generally exempt from federal income taxes and, therefore, the interest rate is generally more favorable to us. These obligations are commonly referred to as “tax-exempt bonds” and generally must be secured by mortgages on our communities. As a condition to obtaining tax-exempt financing, or on occasion as a condition to obtaining favorable zoning or an agreement relating to property taxes in some jurisdictions, we will commit to make some of the apartments in a community available to households whose income does not exceed certain thresholds (e.g., 50% or 80% of area median income), or who meet other qualifying tests. As of December 31, 2018, 5.2% of our apartment homes at current operating communities were under income limitations such as these. These commitments, which may run without expiration or may expire after a period of time (such as 15 or 20 years), may limit our ability to raise rents and, as a consequence, may also adversely affect the value of the communities subject to these restrictions. In addition, if we fail to observe these commitments, we could lose benefits (such as reduced property taxes) or face liabilities including liability for the benefits we received under tax exempt bonds or agreements related to property taxes.

In addition, some of our tax-exempt bond financing documents require us to obtain a guarantee from a financial institution of payment of the principal of, and interest on, the bonds. The guarantee may take the form of a letter of credit, surety bond, guarantee agreement or other additional collateral. If the financial institution defaults in its guarantee obligations, or if we are unable to renew the applicable guarantee or otherwise post satisfactory collateral, a default will occur under the applicable tax-exempt bonds and the community could be foreclosed upon if we do not redeem the bonds.

***Risks related to indebtedness.***

We have a Credit Facility with a syndicate of commercial banks. Our organizational documents do not limit the amount or percentage of indebtedness that may be incurred. Accordingly, subject to compliance with outstanding debt covenants, we could incur more debt, resulting in an increased risk of default on our obligations and an increase in debt service requirements that could adversely affect our financial condition and results of operations.

The mortgages on properties that are subject to secured debt, our Credit Facility and the indenture under which a substantial portion of our debt was issued contain customary restrictions, requirements and other limitations, as well as certain financial and operating covenants including maintenance of certain financial ratios. Maintaining compliance with these restrictions could limit our flexibility. A default in these requirements, if uncured, could result in a requirement that we repay indebtedness, which could materially adversely affect our liquidity and increase our financing costs. Refer to Item 7. “Management’s Discussion and Analysis of Financial Condition and Results of Operations” for further discussion.

The mortgages on properties that are subject to secured debt generally include provisions which stipulate a prepayment penalty or payment that we will be obligated to pay in the event that we elect to repay the mortgage note prior to the earlier of (i) the stated maturity of the note or (ii) the date at which the mortgage note is prepayable without such penalty or payment. If we elect to repay some or all of the outstanding principal balance for our mortgage notes, we may incur prepayment penalties or payments under these provisions which could materially adversely affect our results of operations.

***Failure to maintain our current credit ratings could adversely affect our cost of funds, related margins, liquidity and access to capital markets.***

There are two major debt rating agencies that routinely evaluate and rate our debt. Their ratings are based on a number of factors, which include their assessment of our financial strength, liquidity, capital structure, asset quality, amount of real estate under development, and sustainability of cash flow and earnings, among other factors. If market conditions change, we may not be able to maintain our current credit ratings, which could adversely affect our cost of funds and related margins, liquidity and access to capital markets.

***Debt financing may not be available and equity issuances could be dilutive to our stockholders.***

Our ability to execute our business strategy depends on our access to cost effective debt and equity financing. Debt financing may not be available in sufficient amounts or on favorable terms. If we issue additional equity securities, the interests of existing stockholders could be diluted.

***Failure to generate sufficient revenue or other liquidity needs could limit cash flow available for distributions to stockholders.***

A decrease in rental revenue, or liquidity needs such as the repayment of indebtedness or funding of our development activities, could have an adverse effect on our ability to pay distributions to our stockholders. Significant expenditures associated with each community such as debt service payments, if any, real estate taxes, insurance and maintenance costs are generally not reduced when circumstances cause a reduction in income from a community.

***The form, timing and/or amount of dividend distributions in future periods may vary and be impacted by economic and other considerations.***

The form, timing and/or amount of dividend distributions will be declared at the discretion of the Board of Directors and will depend on actual cash from operations, our financial condition, capital requirements, the annual distribution requirements under the REIT provisions of the Code and other factors as the Board of Directors may consider relevant. The Board of Directors may modify our dividend policy from time to time.

***We may choose to pay dividends in our own stock, in which case stockholders may be required to pay tax in excess of the cash they receive.***

We may distribute taxable dividends that are payable in part in our stock. Taxable stockholders receiving such dividends will be required to include the full amount of the dividend as income to the extent of our current and accumulated earnings and profits for federal income tax purposes. As a result, a U.S. stockholder may be required to pay tax with respect to such dividends in excess of the cash dividend received. If a U.S. stockholder sells the stock it receives as a dividend in order to pay this tax, the sales proceeds may be less than the amount included in income with respect to the dividend, depending on the market price of our stock at the time of the sale. Furthermore, with respect to non-U.S. stockholders, we may be required to withhold U.S. tax with respect to such dividends, including in respect of all or a portion of such dividend that is payable in stock. In addition, the trading price of our stock would experience downward pressure if a significant number of our stockholders sell shares of our stock in order to pay taxes owed on dividends.

***We may experience regulatory or economic barriers to selling apartment communities that could limit liquidity and financial flexibility.***

Potential difficulties in selling real estate in our markets may limit our ability to change or reduce the apartment communities in our portfolio promptly in response to changes in economic or other conditions. Federal tax laws may limit our ability to earn a gain on the sale of a community (unless we own it through a subsidiary which will incur a taxable gain upon sale) if we are found to have held, acquired or developed the community primarily with the intent to resell the community, and this limitation may affect our ability to sell communities without adversely affecting returns to our stockholders. In addition, real estate in our markets can at times be difficult to sell quickly at prices we find acceptable.

From time to time we dispose of properties in transactions intended to qualify as “like-kind exchanges” under Section 1031 of the Code. If a transaction intended to qualify as a Section 1031 exchange is later determined to be taxable, we may face adverse tax consequences, and if the laws applicable to such transactions are amended or repealed, we may not be able to dispose of properties on a tax deferred basis.

***Acquisitions may not yield anticipated results.***

Our business strategy includes acquiring as well as developing communities. Our acquisition activities may be exposed to the following risks:

- an acquired property may fail to perform as we expected in analyzing our investment; and
- our estimate of the costs of operating, repositioning or redeveloping an acquired property may prove inaccurate.

***Failure to succeed in new markets, or with new brands and community formats, or in activities other than the development, ownership and operation of residential rental communities may have adverse consequences.***

We may from time to time commence development activity or make acquisitions outside of our existing market areas if appropriate opportunities arise. For example, in 2017 we entered the Denver, Colorado, and Southeast Florida markets, where we have now engaged, and continue to pursue, development and acquisition opportunities. Our historical experience in our existing markets in developing, owning and operating rental communities does not ensure that we will be able to operate successfully in new markets, should we choose to enter them. We may be exposed to a variety of risks if we choose to enter new markets, including an inability to accurately evaluate local apartment market conditions; an inability to obtain land for development or to identify appropriate acquisition opportunities; an inability to hire and retain key personnel; and a lack of familiarity with local governmental and permitting procedures.

Although we are primarily in the multifamily rental business, we also own and lease ancillary retail and commercial space, in particular when such tenants represent the best use of the space, as is often the case with large urban in-fill developments. Gross rental revenue provided by leased retail/commercial space in our portfolio represented 1.1% of our total revenue in 2018. The long term nature of our retail/commercial leases and characteristics of many of our tenants (small, local businesses) may subject us to certain risks. We may not be able to lease new space for rents that are consistent with our projections or at market rates. Also, when leases for our existing retail/commercial space expire, the space may not be relet or the terms of reletting, including the cost of allowances and concessions to tenants, may be less favorable than the current lease terms. Our properties compete with other properties with retail/commercial space. The presence of competitive alternatives may affect our ability to lease space and the level of rents we can obtain. If our retail/commercial tenants experience financial distress or bankruptcy, they may fail to comply with their contractual obligations, seek concessions in order to continue operations or cease their operations, which could adversely impact our results of operations and financial condition.

We also may engage or have an interest in for-sale activity. For example, we have indicated that we may pursue the sale of residential condominium units as a disposition strategy from the residential component of our development at 15 West 61st Street, New York, New York. We may be unsuccessful at developing real estate with the intent to sell or in selling condominiums as a disposition strategy for an asset, which could have an adverse effect on our results of operations.

***Land we hold with no current intent to develop may be subject to future impairment charges.***

We own parcels of land that we do not currently intend to develop. As discussed in Item 2. “Communities—Other Land and Real Estate Assets,” in the event that the fair market value of a parcel changes such that we determine that the carrying basis of the parcel reflected in our financial statements is greater than the parcel's then current fair value, less costs to dispose, we would be subject to an impairment charge, which would reduce our net income.

***We are exposed to various risks from our real estate activity through joint ventures.***

Instead of acquiring, developing or maintaining ownership of apartment communities as a wholly-owned investment, at times we invest in real estate as a partner or a co-venturer with other investors. Joint venture investments (including investments through partnerships or limited liability companies) involve risks, including the possibility that our partner might become insolvent or otherwise refuse to make capital contributions when due; that we may be responsible to our partner for indemnifiable losses; that our partner might at any time have business goals that are inconsistent with ours; and that our partner may be in a position to take action or withhold consent contrary to our instructions or requests. Frequently, we and our partner may each have the right to trigger a buy-sell arrangement that could cause us to sell our interest, or acquire our partner's interest, at a time when we otherwise would not have initiated such a transaction.

***We are exposed to risks associated with investment in and management of discretionary real estate investment funds and joint ventures.***

We have investment interests in unconsolidated real estate entities (collectively, "ventures") ranging from 20.0% to 55.0%. The ventures present risks, including the following:

- our subsidiaries that are the general partner or managing member of the ventures are generally liable, under applicable law or the governing agreement of a venture, for the debts and obligations of the respective venture, subject to certain exculpation and indemnification rights pursuant to the terms of the governing agreement;
- investors in the ventures holding a majority of the equity interests may remove us as the general partner or managing member in certain cases involving cause;

- while we have broad discretion to manage the ventures, the investors or an advisory committee comprised of representatives of the investors must approve certain matters, and as a result we may be unable to cause the ventures to implement certain decisions that we consider beneficial; and
- we may be liable and/or our status as a REIT may be jeopardized if either the ventures, or the REIT entities associated with the ventures, fail to comply with various tax or other regulatory matters.

***The governance provisions of our joint ventures with Equity Residential could adversely affect our flexibility in dealing with such joint venture assets and liabilities.***

In connection with the Archstone Acquisition, we created joint ventures with Equity Residential that manage or have an interest in certain of the acquired assets and liabilities. These structures involve participation in the ventures by Equity Residential whose interests and rights may not be the same as ours. Joint ownership of an investment in real estate involves risks not associated with direct ownership of real estate, including the risk that Equity Residential may at any time have economic or other business interests or goals which become inconsistent with our business interests or goals, including inconsistent goals relating to the sale of properties held in the joint ventures or the timing of the termination and liquidation of the joint ventures. Under the form for the joint venture arrangements, neither we nor Equity Residential expect to individually have the sole power to control the ventures, and an impasse could occur, which could adversely affect the applicable joint venture and decrease potential returns to us and our investors.

***We rely on information technology in our operations, and any breach, interruption or security failure of that technology, or any non-compliance with applicable laws with respect to the use of that technology, could have a negative impact on our business, results of operations, financial condition and/or reputation.***

Information security risks have generally increased in recent years due to the rise in new technologies and the increased sophistication and activities of perpetrators of cyber attacks.

We collect and hold personally identifiable information of our residents and prospective residents in connection with our leasing and property management activities, and we collect and hold personally identifiable information of our associates in connection with their employment. In addition, we engage third party service providers that may have access to such personally identifiable information in connection with providing necessary information technology and security and other business services to us.

We address potential breaches or disclosure of this confidential personally identifiable information by implementing a variety of security measures intended to protect the confidentiality and security of this information including (among others) engaging reputable, recognized firms to help us design and maintain our information technology and data security systems, including testing and verification of their proper and secure operations on a periodic basis. We also maintain cyber risk insurance to provide some coverage for certain risks arising out of data and network breaches.

However, there can be no assurance that we will be able to prevent unauthorized access to this information. Any failure in or breach of our operational or information security systems, or those of our third party service providers, as a result of cyber attacks or information security breaches, could result in a wide range of potentially serious harm to our business operations and financial prospects, including (among others) disruption of our business and operations, disclosure or misuse of confidential or proprietary information (including personal information of our residents and/or associates), damage to our reputation, and/or potentially significant legal and/or financial liabilities and penalties.

Various laws and regulations and interpretations thereof, as well as agreements with payment processors, require, or may require, us to comply with rules related to our websites for use by residents and prospective residents, including requirements related to accessibility of our websites to persons with disabilities and our handling of data collection. We could face liabilities for failure to comply with these requirements. We could incur costs to comply with stricter and more complex data privacy, data collection and information security laws and standards.

***We are exposed to risks that are either uninsurable, not economically insurable or in excess of our insurance coverage, including risks discussed below.***

***Earthquake risk.*** As further described in Item 2. “Communities—Insurance and Risk of Uninsured Losses,” many of our West Coast communities are located in the general vicinity of active earthquake faults. We cannot assure you that an earthquake would not cause damage or losses greater than insured levels. In the event of a loss in excess of insured limits, we could lose our capital invested in the affected community, as well as anticipated future revenue from that community. We would also continue to be obligated to repay any mortgage indebtedness or other obligations related to the community. Any such loss could materially and adversely affect our business and our financial condition and results of operations.

Insurance coverage for earthquakes can be costly and in limited supply. As a result, we may experience shortages in desired coverage levels if market conditions are such that insurance is not available or the cost of insurance makes it, in the Company's view, economically impractical.

**Severe or inclement weather risk.** We are exposed to risks associated with inclement or severe weather, including hurricanes, severe winter storms and coastal flooding. Severe or inclement weather may result in increased costs resulting from increased maintenance, repair of water and wind damage, removal of snow and ice, and, in the case of our Development Communities, delays in construction that result in increased construction costs and delays in realizing rental revenues from a community.

A single catastrophe that affects one of our regions, such as an earthquake that affects the West Coast or a hurricane or severe winter storm that affects the Mid-Atlantic, Metro New York/New Jersey or New England regions, may have a significant negative effect on our financial condition and results of operations.

**Climate change risk.** To the extent that significant changes in the climate occur in areas where our communities are located, we may experience extreme weather and changes in precipitation and temperature, all of which may result in physical damage to or a decrease in demand for properties located in these areas or affected by these conditions. Should the impact of climate change be material in nature, including significant property damage to or destruction of our communities, or occur for lengthy periods of time, our financial condition or results of operations may be adversely affected. In addition, changes in federal, state and local legislation and regulation based on concerns about climate change could result in increased capital expenditures on our existing properties and our new development properties (for example, to improve their energy efficiency and/or resistance to inclement weather) without a corresponding increase in revenue, resulting in adverse impacts to our net income.

**Terrorism risk.** We have significant investments in large metropolitan markets, such as Metro New York/New Jersey and Washington, D.C., which have in the past been or may in the future be the target of actual or threatened terrorist attacks. Future terrorist attacks in these markets could directly or indirectly damage our communities, both physically and financially, or cause losses that exceed our insurance coverage and that could have a material adverse effect on our business, financial condition and results of operations.

**A significant uninsured property or liability loss could have a material adverse effect on our financial condition and results of operations.**

In addition to the earthquake insurance discussed above, we carry commercial general liability insurance, property insurance and terrorism insurance with respect to our communities on terms and in amounts we consider commercially reasonable. There are, however, certain types of losses (such as losses arising from acts of war) that are not insured, in full or in part, because they are either uninsurable or the cost of insurance makes it, in the Company's view, economically impractical. If an uninsured property loss or a property loss in excess of insured limits were to occur, we could lose our capital invested in a community, as well as the anticipated future revenues from such community. We would also continue to be obligated to repay any mortgage indebtedness or other obligations related to the community. If an uninsured liability to a third party were to occur, we would incur the cost of defense and settlement with, or court ordered damages to, that third party. A significant uninsured property or liability loss could have a material adverse effect on our business and our financial condition and results of operations.

**We may incur costs due to environmental contamination or non-compliance.**

Under various federal, state and local environmental and public health laws, regulations and ordinances, we may be required, regardless of knowledge or responsibility, to investigate and remediate the effects of hazardous or toxic substances or petroleum product releases at our properties (including in some cases natural substances such as methane and radon gas) and may be held liable under these laws or common law to a governmental entity or to third parties for property, personal injury or natural resources damages and for investigation and remediation costs incurred as a result of the contamination. These damages and costs may be substantial and may exceed any insurance coverage we have for such events. The presence of these substances, or the failure to properly remediate the contamination, may adversely affect our ability to borrow against, develop, sell or rent the affected property. In addition, some environmental laws create or allow a government agency to impose a lien on the contaminated site in favor of the government for damages and costs it incurs as a result of the contamination.

The development, construction and operation of our communities are subject to regulations and permitting under various federal, state and local laws, regulations and ordinances, which regulate matters including wetlands protection, storm water runoff and wastewater discharge. These laws and regulations may impose restrictions on the manner in which our communities may be developed, and noncompliance with these laws and regulations may subject us to fines and penalties.

Certain federal, state and local laws, regulations and ordinances govern the removal, encapsulation or disturbance of asbestos containing materials ("ACMs") when such materials are in poor condition or in the event of renovation or demolition of a building. These laws and the common law may impose liability for release of ACMs and may allow third parties to seek recovery from owners or operators of real properties for personal injury associated with exposure to ACMs. We are not aware that any ACMs were used in the construction of the communities we developed. ACMs were, however, used in the construction of a number of the communities that we have acquired. Although we implement an operations and maintenance program at each of the communities at which ACMs are detected, we may fail to adequately observe such program or a disturbance of ACMs may occur nevertheless, exposing us to liability.

We are aware that some of our communities have lead paint and have implemented an operations and maintenance program at each of those communities.

Environmental agencies and third parties may assert claims for remediation or personal injury based on the alleged actual or potential intrusion into buildings of chemical vapors from soils or groundwater underlying or in the vicinity of those buildings or on nearby properties.

All of our stabilized operating communities, and all of the communities that we are currently developing, have been subjected to at least a Phase I or similar environmental assessment, which generally does not involve invasive techniques such as soil or groundwater sampling. These assessments, together with subsurface assessments conducted on some properties, have not revealed, and we are not otherwise aware of, any environmental conditions that we believe would have a material adverse effect on our business, assets, financial condition or results of operations. In connection with our ownership, operation and development of communities, from time to time we undertake substantial remedial action in response to the presence of subsurface or other contaminants, including contaminants in soil, groundwater and soil vapor beneath or affecting our buildings. In some cases, an indemnity exists upon which we may be able to rely if environmental liability arises from the contamination or remediation costs exceed estimates. There can be no assurance, however, that all necessary remediation actions have been or will be undertaken at our properties or that we will be indemnified, in full or at all, in the event that environmental liability arises.

Mold growth may occur when excessive moisture accumulates in buildings or on building materials, particularly if the moisture problem remains undiscovered or is not addressed over a period of time. Certain molds may in some instances lead to adverse health effects, including allergic or other reactions. To help limit mold growth, we educate residents about the importance of adequate ventilation and request or require that they notify us when they see mold or excessive moisture. We have established procedures for promptly addressing and remediating mold or excessive moisture from apartment homes when we become aware of its presence regardless of whether we or the resident believe a health risk is presented. However, we cannot provide assurance that mold or excessive moisture will be detected and remediated in a timely manner. If a significant mold problem arises at one of our communities, we could be required to undertake a costly remediation program to contain or remove the mold from the affected community and could be exposed to other liabilities that may exceed any applicable insurance coverage.

Additionally, we have occasionally been involved in developing, managing, leasing and operating various properties for third parties. Consequently, we may be considered to have been an operator of such properties and, therefore, potentially liable for removal or remediation costs or other potential costs which relate to the release or presence of hazardous or toxic substances or petroleum products at such properties.

We cannot assure you that:

- the environmental assessments described above have identified all potential environmental liabilities;
- no prior owner created any material environmental condition not known to us or the consultants who prepared the assessments;
- no environmental liabilities have developed since the environmental assessments were prepared;
- the condition of land or operations in the vicinity of our communities, such as the presence of underground storage tanks, will not affect the environmental condition of our communities;
- future uses or conditions, including, without limitation, changes in applicable environmental laws and regulations, will not result in the imposition of environmental liability; and
- no environmental liabilities will arise at communities that we have sold for which we may have liability.

***Our success depends on key personnel whose continued service is not guaranteed.***

Our success depends in part on our ability to attract and retain the services of executive officers and other personnel. Our executive officers make important capital allocation decisions or recommendations to our Board of Directors from among the opportunities identified by our regional offices. There is substantial competition for qualified personnel in the real estate industry, and the loss of our key personnel could adversely affect the Company.

***Failure to qualify as a REIT would cause us to be taxed as a corporation, which would significantly reduce funds available for distribution to stockholders.***

If we fail to qualify as a REIT for federal income tax purposes, we will be subject to regular U.S. federal corporate income tax on our taxable income. In addition, unless we are entitled to relief under applicable statutory provisions, we would be ineligible to make an election for treatment as a REIT for the four taxable years following the year in which we lose our qualification. The additional tax liability resulting from the failure to qualify as a REIT would significantly reduce or eliminate the amount of funds available for distribution to our stockholders. Furthermore, we would no longer be required to make distributions to our stockholders. Thus, our failure to qualify as a REIT could also impair our ability to expand our business and raise capital, and would adversely affect the value of our common stock.

We believe that we are organized and qualified as a REIT, and we intend to operate in a manner that will allow us to continue to qualify as a REIT. However, we cannot assure you that we are qualified as a REIT, or that we will remain qualified in the future. This is because qualification as a REIT involves the application of highly technical and complex provisions of the Code for which there are only limited judicial and administrative interpretations and involves the determination of a variety of factual matters and circumstances not entirely within our control. Our qualification as a REIT will depend on our satisfaction of certain asset, income, organizational, distribution, shareholder ownership and other requirements on a continuing basis. In addition, future legislation, new regulations, administrative interpretations or court decisions may significantly change the tax laws or the application of the tax laws with respect to qualification as a REIT for federal income tax purposes or the federal income tax consequences of this qualification.

Even if we qualify as a REIT, we will be subject to certain federal, state and local taxes on our income and property and on taxable income that we do not distribute to our stockholders. In addition, we hold through our taxable REIT subsidiaries certain assets and engage in certain activities that a REIT could not engage in directly. We also use taxable REIT subsidiaries to hold certain assets that we believe would be subject to the 100% prohibited transaction tax if sold at a gain outside of a taxable REIT subsidiary or to engage in activities that generate non-qualifying REIT income. Our taxable REIT subsidiaries are subject to U.S. tax as regular corporations. The Archstone Acquisition increased the amount of assets held through our taxable REIT subsidiaries.

***Prospective investors are urged to consult with their tax advisors regarding the effects of recently enacted tax legislation and other legislative, regulatory and administrative developments.***

On December 22, 2017, H.R. 1, informally titled the Tax Cuts and Jobs Act (the “TCJA”), was enacted. The TCJA made major changes to the Code, including a number of provisions of the Code that affect the taxation of REITs and their stockholders. The long-term effect of the significant changes made by the TCJA remains uncertain, and additional administrative guidance will be required in order to fully evaluate the effect of many provisions. The effect of any technical corrections with respect to the TCJA could have an adverse effect on us or our stockholders or holders of our debt securities.

***The ability of our stockholders to control our policies and effect a change of control of our company is limited by certain provisions of our charter and bylaws and by Maryland law.***

There are provisions in our charter and bylaws that may discourage a third party from making a proposal to acquire us, even if some of our stockholders might consider the proposal to be in their best interests. These provisions include the following:

Our charter authorizes our Board of Directors to issue up to 50,000,000 shares of preferred stock without stockholder approval and to establish the preferences and rights, including voting rights, of any series of preferred stock issued. The Board of Directors may issue preferred stock without stockholder approval, which could allow the Board to issue one or more classes or series of preferred stock that could discourage or delay a tender offer or a change in control.

To maintain our qualification as a REIT for federal income tax purposes, not more than 50% in value of our outstanding stock may be owned, directly or indirectly, by or for five or fewer individuals at any time during the last half of any taxable year. To maintain this qualification, and/or to address other concerns about concentrations of ownership of our stock, our charter generally prohibits ownership (directly, indirectly by virtue of the attribution provisions of the Code, or beneficially as defined in Section 13 of the Securities Exchange Act) by any single stockholder of more than 9.8% of the issued and outstanding shares of any class or series of our stock. In general, under our charter, pension plans and mutual funds may directly and beneficially own up to 15% of the outstanding shares of any class or series of stock. Under our charter, our Board of Directors may in its sole discretion waive or modify the ownership limit for one or more persons, but it is not required to do so even if such waiver would not affect our qualification as a REIT. These ownership limits may prevent or delay a change in control and, as a result, could adversely affect our stockholders' ability to realize a premium for their shares of common stock.

As a Maryland corporation, we are subject to the provisions of the Maryland General Corporation Law. Maryland law imposes restrictions on some business combinations and requires compliance with statutory procedures before some mergers and acquisitions may occur, which may delay or prevent offers to acquire us or increase the difficulty of completing any offers, even if they are in our stockholders' best interests. In addition, other provisions of the Maryland General Corporation Law permit the Board of Directors to make elections and to take actions without stockholder approval (such as classifying our Board such that the entire Board is not up for re-election annually) that, if made or taken, could have the effect of discouraging or delaying a change in control.

**ITEM 1B. UNRESOLVED STAFF COMMENTS**

None.

## ITEM 2. COMMUNITIES

Our real estate investments consist primarily of current operating apartment communities, communities in various stages of development (“Development Communities”) and Development Rights (as defined below). Our current operating communities are further distinguished as Established Communities, Other Stabilized Communities, Lease-Up Communities, Redevelopment Communities and Unconsolidated Communities. While we generally establish the classification of communities on an annual basis, we intend to update the classification of communities during the calendar year to the extent that our plans with regard to the disposition or redevelopment of a community change during the year. The following is a description of each category:

*Current Communities* are categorized as Established, Other Stabilized, Lease-Up, Redevelopment or Unconsolidated according to the following attributes:

- *Established Communities (also known as Same Store Communities)* are consolidated communities in the markets where we have a significant presence (New England, New York/New Jersey, Mid-Atlantic, Pacific Northwest, and Northern and Southern California) and where a comparison of operating results from the prior year to the current year is meaningful, as these communities were owned and had stabilized occupancy as of the beginning of the respective prior year. The Established Communities for the year ended December 31, 2018 are communities that are consolidated for financial reporting purposes, had stabilized occupancy as of January 1, 2017, are not conducting or planning to conduct substantial redevelopment activities, and are not held for sale or planned for disposition within the fiscal year. A community is considered to have stabilized occupancy at the earlier of (i) attainment of 95% physical occupancy or (ii) the one-year anniversary of completion of development or redevelopment.
- *Other Stabilized Communities* are all other completed consolidated communities that have stabilized occupancy, as defined above, as January 1, 2018, or which were acquired during the year ended December 31, 2018. Other Stabilized Communities includes stabilized operating communities in our expansion markets of Denver, Colorado, and Southeast Florida, but excludes communities that are conducting or planning to conduct substantial redevelopment activities within the fiscal year.
- *Lease-Up Communities* are consolidated communities where construction has been complete for less than one year and where physical occupancy has not reached 95%.
- *Redevelopment Communities* are consolidated communities where substantial redevelopment is in progress or is planned to begin during the fiscal year. Redevelopment is considered substantial when capital invested during the reconstruction effort is expected to exceed the lesser of \$5,000,000 or 10% of the community's pre-redevelopment basis and is expected to have a material impact on the operations of the community, including occupancy levels and future rental rates.
- *Unconsolidated Communities* are communities that we have an indirect ownership interest in through our investment interest in an unconsolidated entity.

*Development Communities* are communities that are either currently under construction, or were under construction and completed during the fiscal year. These communities may be partially complete and operating.

*Development Rights* are development opportunities in the early phase of the development process where we either have an option to acquire land or enter into a leasehold interest, where we are the buyer under a long-term conditional contract to purchase land, where we control the land through a ground lease or own land to develop a new community, or where we are the designated developer in a public-private partnership. We capitalize related pre-development costs incurred in pursuit of new developments for which we currently believe future development is probable.

We currently lease our corporate headquarters located in Arlington, Virginia, as well as our other regional and administrative offices under operating leases.

As of December 31, 2018, communities that we owned or held a direct or indirect interest in were classified as follows:

	Number of communities	Number of apartment homes
Current Communities		
Established Communities:		
New England	35	8,301
Metro NY/NJ	35	10,389
Mid-Atlantic	28	9,274
Pacific Northwest	14	3,256
Northern California	36	10,798
Southern California	46	12,883
Total Established	194	54,901
Other Stabilized Communities:		
New England	4	1,164
Metro NY/NJ	9	2,363
Mid-Atlantic	7	2,593
Pacific Northwest	2	860
Northern California	4	1,111
Southern California	9	3,220
Expansion Markets	5	1,408
Non-Core	3	1,014
Total Other Stabilized	43	13,733
Lease-Up Communities	9	2,608
Redevelopment Communities	9	3,648
Unconsolidated Communities	15	3,659
Total Current Communities	270	78,549
Development Communities (1)	21	6,609
Total Communities	291	85,158
Development Rights	28	9,769

(1) Development Communities excludes the development of 15 West 61st Street, expected to contain 172 residential units and 67,000 square feet of retail space. We are pursuing a potential for-sale strategy of individual condominium units for the residential portion, while we would maintain ownership of the retail portion.

Our holdings under each of the above categories are discussed on the following pages.

We generally establish the composition of our Established Communities portfolio annually. Changes in the Established Communities portfolios for the years ended December 31, 2018, 2017 and 2016 were as follows:

	Number of communities
Established Communities as of December 31, 2015	177
Communities added	25
Communities removed (1):	
Redevelopment Communities	(3)
Disposed Communities	(6)
Communities with multiple phases combined	(2)
Established Communities as of December 31, 2016	191
Communities added	17
Communities removed (1):	
Redevelopment Communities	(10)
Disposed Communities	(6)
Other Stabilized (2)	(1)
Communities with multiple phases combined	(1)
Established Communities as of December 31, 2017	190
Communities added	25
Communities removed (1):	
Redevelopment Communities	(9)
Disposed Communities (3)	(13)
Other Stabilized (2)	(1)
Communities with multiple phases separated	2
Established Communities as of December 31, 2018	194

- (1) We remove a community from our Established Communities portfolio if we believe that planned activity for a community for the upcoming year will result in that community's expected operations not being comparable to the prior year period. We believe that a community's expected operations will not be comparable to the prior year period when we intend either (i) to undertake a significant capital renovation of the community, such that we would consider the community to be classified as a Redevelopment Community; (ii) to dispose of a community through a sale or other disposition transaction; or (iii) when a significant casualty loss occurs.
- (2) Community was moved from the Established Communities portfolio to the Other Stabilized portfolio as a result of a casualty loss that occurred during the year and impacted operations.
- (3) Includes the five wholly-owned communities contributed to the NYC Joint Venture.

#### Current Communities

Our Current Communities include garden-style apartment communities consisting of multi-story buildings of stacked flats and/or townhome apartments in landscaped settings, as well as mid and high rise apartment communities consisting of larger elevator-served buildings of four or more stories, frequently with structured parking. As of January 31, 2019, our Current Communities consisted of the following:

	Number of communities	Number of apartment homes
Garden-style	131	39,699
Mid-rise	110	30,296
High-rise	28	8,370
Total Current Communities	269	78,365

As discussed in Item 1. "Business," we operate under three core brands *Avalon*, *AVA* and *Eaves by Avalon*. We believe that this branding differentiation allows us to target our product offerings to multiple customer groups and submarkets within our existing geographic footprint. Our core "*Avalon*" brand focuses on upscale apartment living and high end amenities and services. "*AVA*" targets customers in high energy, transit-served urban neighborhoods and generally feature smaller apartments, many of which are designed for roommate living with an emphasis on modern design and a technology focus. "*Eaves by Avalon*" is targeted to the cost conscious, "value" segment in suburban areas. We believe that these brands allow us to further penetrate our existing markets by targeting our market by consumer preference and attitude as well as by location and price.

We also have an extensive and ongoing maintenance program to continually maintain and enhance our communities and apartment homes. The aesthetic appeal of our communities and a service-oriented property management team, focused on the specific needs of residents, enhances market appeal to discriminating residents. We believe our mission of *Creating a Better Way To Live* helps us achieve higher rental rates and occupancy levels while minimizing resident turnover and operating expenses.

Our Current Communities are located in the following geographic markets:

	Number of communities at		Number of apartment homes at		Percentage of total apartment homes at	
	1/31/2018	1/31/2019	1/31/2018	1/31/2019	1/31/2018	1/31/2019
<b>New England</b>	<b>50</b>	<b>47</b>	<b>12,392</b>	<b>11,846</b>	<b>15.9%</b>	<b>15.1%</b>
Boston, MA	40	37	10,422	9,876	13.4%	12.6%
Fairfield, CT	10	10	1,970	1,970	2.5%	2.5%
<b>Metro NY/NJ</b>	<b>51</b>	<b>54</b>	<b>14,470</b>	<b>15,279</b>	<b>18.6%</b>	<b>19.5%</b>
New York City, NY	13	14	4,909	5,089	6.3%	6.5%
New York Suburban	18	19	4,419	4,573	5.7%	5.8%
New Jersey	20	21	5,142	5,617	6.6%	7.2%
<b>Mid-Atlantic</b>	<b>40</b>	<b>41</b>	<b>14,461</b>	<b>14,380</b>	<b>18.6%</b>	<b>18.4%</b>
Washington Metro/Baltimore, MD	40	41	14,461	14,380	18.6%	18.4%
<b>Pacific Northwest</b>	<b>18</b>	<b>17</b>	<b>4,669</b>	<b>4,538</b>	<b>6.0%</b>	<b>5.8%</b>
Seattle, WA	18	17	4,669	4,538	6.0%	5.8%
<b>Northern California</b>	<b>41</b>	<b>42</b>	<b>12,222</b>	<b>12,548</b>	<b>15.8%</b>	<b>16.0%</b>
San Jose, CA	12	12	4,713	4,713	6.1%	6.0%
Oakland-East Bay, CA	13	13	3,847	3,847	5.0%	4.9%
San Francisco, CA	16	17	3,662	3,988	4.7%	5.1%
<b>Southern California</b>	<b>62</b>	<b>60</b>	<b>17,764</b>	<b>17,352</b>	<b>23.0%</b>	<b>22.1%</b>
Los Angeles, CA	40	40	11,916	11,916	15.4%	15.2%
Orange County, CA	13	12	3,621	3,370	4.7%	4.3%
San Diego, CA	9	8	2,227	2,066	2.9%	2.6%
<b>Expansion markets</b>	<b>2</b>	<b>5</b>	<b>622</b>	<b>1,408</b>	<b>0.8%</b>	<b>1.8%</b>
Denver, CO	1	3	252	748	0.3%	1.0%
Southeast Florida	1	2	370	660	0.5%	0.8%
<b>Non-Core</b>	<b>3</b>	<b>3</b>	<b>1,014</b>	<b>1,014</b>	<b>1.3%</b>	<b>1.3%</b>
	267	269	77,614	78,365	100.0%	100.0%



We manage and operate substantially all of our Current Communities. During the year ended December 31, 2018, we completed construction of seven communities containing 1,915 apartment homes, one of which was developed through an unconsolidated joint venture, and sold 10 operating communities containing an aggregate of 2,321 apartment homes, as well as the five communities contributed to the NYC Joint Venture. The average age of our Current Communities, on a weighted average basis according to number of apartment homes, is 19.2 years. When adjusted to reflect redevelopment activity, as if redevelopment were a new construction completion date, the weighted average age of our Current Communities is 9.9 years.

Of the Current Communities, as of January 31, 2019, we owned (directly or through wholly-owned subsidiaries):

- 252 operating communities, including 241 with a full fee simple, or absolute, ownership interest and 11 that are on land subject to a land lease. The land leases have various expiration dates from October 2026 to March 2142, and six of the land leases are used to support tax advantaged structures that ultimately allow us to purchase the land upon lease expiration.
- A general partnership interest and an indirect limited partnership interest in Archstone Multifamily Partners AC LP (the “U.S. Fund”), Multifamily Partners AC JV LP (the “AC JV”) and North Point II JV, LP, subsidiaries of which own five, two and one operating communities, respectively. One community owned by the U.S. Fund is subject to a land lease.
- A membership interest in four limited liability companies, one of which, the NYC Joint Venture, through subsidiaries owns a fee simple interest in three operating communities and a leasehold interest in two additional operating communities, and three ventures that each hold a fee simple interest in an operating community.
- A general partnership interest in one partnership structured as a “DownREIT,” as described more fully below, that owns one community.

We also hold, directly or through wholly-owned subsidiaries, the full fee simple ownership interest in our Development Communities, as well as a mixed-use project currently being developed in which we are pursuing a potential for-sale strategy of individual condominium units.

In our partnership structured as a DownREIT, one of our wholly-owned subsidiaries is the general partner, and there are limited partners whose interest in the partnership is represented by units of limited partnership interest. Limited partners are entitled to receive an initial distribution before any distribution is made to the general partner. Under the partnership agreement for the DownREIT, the distributions per unit paid to the holders of units of limited partnership interests are equal to our current common stock dividend amount. The holders of units of limited partnership interest have the right to present all or some of their units for redemption for a cash amount as determined by the partnership agreement and based on the fair value of our common stock. In lieu of a cash redemption by the partnership, we may elect to acquire any unit presented for redemption for one share of our common stock or for such cash amount. As of January 31, 2019, there were 7,500 DownREIT partnership units outstanding. The DownREIT partnership is consolidated for financial reporting purposes.

#### Development Communities

As of December 31, 2018, we owned or held a direct or indirect interest in 21 Development Communities under construction. We expect these Development Communities, when completed, to add a total of 6,609 apartment homes and 87,000 square feet of retail space to our portfolio for a total capitalized cost, including land acquisition costs, of approximately \$2,383,000,000. Additionally, we are pursuing a potential for-sale strategy of individual condominium units for the residential portion of the 15 West 61st Street development, which is currently under construction and when completed is expected to contain 172 residential units and 67,000 square feet of retail space for a total capitalized cost of \$620,000,000. We currently intend to own and operate the retail portion of the development. We cannot assure you that we will meet our schedule for construction completion or that we will meet our budgeted costs, either individually, or in the aggregate. You should carefully review Item 1A. “Risk Factors” for a discussion of the risks associated with development activity and our discussion under Item 7. “Management’s Discussion and Analysis of Financial Condition and Results of Operations” (including the factors identified under “Forward-Looking Statements”) for further discussion of development activity.

The following table presents a summary of the Development Communities. We hold a fee simple ownership interest in these communities (directly or through a wholly-owned subsidiary) unless otherwise noted in the table.

		Number of apartment homes	Projected total capitalized cost (1) (\$ millions)	Construction start	Initial actual/projected occupancy (2)	Estimated completion	Estimated stabilization (3)
1.	Avalon Boonton <i>Boonton, NJ</i>	350	\$ 91	Q3 2016	Q1 2019	Q1 2020	Q3 2020
2.	Avalon Belltown Towers (4) <i>Seattle, WA</i>	273	147	Q4 2016	Q2 2019	Q4 2019	Q2 2020
3.	Avalon Public Market <i>Emeryville, CA</i>	289	163	Q4 2016	Q2 2019	Q4 2019	Q2 2020
4.	Avalon Teaneck <i>Teaneck, NJ</i>	248	73	Q4 2016	Q3 2019	Q1 2020	Q3 2020
5.	AVA Hollywood (4) <i>Hollywood, CA</i>	695	365	Q4 2016	Q3 2019	Q3 2020	Q1 2021
6.	AVA Esterra Park <i>Redmond, WA</i>	323	91	Q2 2017	Q4 2018	Q3 2019	Q1 2020
7.	Avalon at the Hingham Shipyard II <i>Hingham, MA</i>	190	65	Q2 2017	Q3 2018	Q2 2019	Q4 2019
8.	Avalon Piscataway <i>Piscataway, NJ</i>	360	90	Q2 2017	Q3 2018	Q2 2019	Q4 2019
9.	Avalon Sudbury <i>Sudbury, MA</i>	250	85	Q3 2017	Q2 2018	Q2 2019	Q3 2019
10.	Avalon Towson <i>Towson, MD</i>	371	114	Q4 2017	Q1 2020	Q4 2020	Q2 2021
11.	Avalon Yonkers <i>Yonkers, NY</i>	590	188	Q4 2017	Q3 2019	Q2 2021	Q3 2021
12.	Avalon Walnut Creek II <i>Walnut Creek, CA</i>	200	109	Q4 2017	Q4 2019	Q2 2020	Q4 2020
13.	Avalon North Creek <i>Bothell, WA</i>	316	84	Q4 2017	Q2 2019	Q1 2020	Q3 2020
14.	Avalon Saugus (4) <i>Saugus, MA</i>	280	93	Q2 2018	Q2 2019	Q1 2020	Q3 2020
15.	Avalon Doral <i>Doral, FL</i>	350	111	Q2 2018	Q2 2020	Q1 2021	Q3 2021
16.	Avalon Norwood <i>Norwood, MA</i>	198	61	Q2 2018	Q3 2019	Q1 2020	Q3 2020
17.	Avalon Harbor East <i>Baltimore, MD</i>	400	139	Q3 2018	Q4 2020	Q3 2021	Q1 2022
18.	Avalon Old Bridge <i>Old Bridge, NJ</i>	252	66	Q3 2018	Q1 2020	Q3 2020	Q1 2021
19.	Avalon Newcastle Commons II <i>Newcastle, WA</i>	293	106	Q4 2018	Q3 2020	Q1 2021	Q3 2021
20.	Twinbrook Station <i>Rockville, MD</i>	238	66	Q4 2018	Q2 2020	Q4 2020	Q1 2021
21.	Avalon Harrison (4)(5) <i>Harrison, NY</i>	143	76	Q4 2018	Q3 2020	Q3 2021	Q4 2021
	<b>Total (6)</b>	<b>6,609</b>	<b>\$ 2,383</b>				

- (1) Projected total capitalized cost includes all capitalized costs projected to be or actually incurred to develop the respective Development Community, determined in accordance with GAAP, including land acquisition costs, construction costs, real estate taxes, capitalized interest and loan fees, permits, professional fees, allocated development overhead and other regulatory fees, as well as costs incurred for first generation retail tenants such as tenant improvements and leasing commissions. Projected total capitalized cost for communities identified as having joint venture ownership, either during construction or upon construction completion, represents the total projected joint venture contribution amount unless otherwise noted.
- (2) Initial projected occupancy dates are estimates. There can be no assurance that we will pursue to completion any or all of these proposed developments.
- (3) Stabilized operations is defined as the earlier of (i) attainment of 95% or greater physical occupancy or (ii) the one-year anniversary of completion of development.
- (4) Developments containing at least 10,000 square feet of retail space include Avalon Belltown Towers (11,000 square feet), AVA Hollywood (19,000 square feet), Avalon Saugus (23,000 square feet), and Avalon Harrison (27,000 square feet).
- (5) We signed a land disposition and development agreement with the transportation authorities controlling such property relating to the development of this community. During the fourth quarter of 2018, all internal Company approvals were given to authorize the commitment of funds for the construction of this community.

- (6) Development Communities excludes 15 West 61st Street, which is currently under construction. 15 West 61st Street is expected to contain 172 residential units and 67,000 square feet of retail space when completed and is expected to be developed for an estimated total capitalized cost of \$620 million. We are currently pursuing a potential for-sale strategy of individual condominium units for the residential portion and currently intend to own and operate the retail portion of the development, both of which are expected to complete construction during 2019.

During the year ended December 31, 2018, the Company completed the development of the following communities:

	Number of apartment homes	Total capitalized cost (1) (\$ millions)	Approximate rentable area (sq. ft.)	Total capitalized cost per sq. ft.	Quarter of completion
1. AVA NoMa <i>Washington, D.C.</i>	438	\$ 144	373,828	\$ 385	Q1 2018
2. Avalon Brooklyn Bay (2) <i>Brooklyn, NY</i>	180	97	149,881	\$ 647	Q1 2018
3. Avalon Somers <i>Somers, NY</i>	152	46	179,401	\$ 256	Q1 2018
4. AVA Wheaton <i>Wheaton, MD</i>	319	76	268,953	\$ 283	Q2 2018
5. Avalon Maplewood (3) <i>Maplewood, NJ</i>	235	65	209,628	\$ 310	Q2 2018
6. Avalon Dogpatch <i>San Francisco, CA</i>	326	204	262,478	\$ 777	Q3 2018
7. AVA North Point (4) <i>Cambridge, MA</i>	265	110	226,912	\$ 485	Q3 2018
<b>Total</b>	<b>1,915</b>	<b>\$ 742</b>			

- (1) Total capitalized cost is as of December 31, 2018. We generally anticipate incurring additional costs associated with these communities that are customary for new developments.
- (2) We developed this project with a private development partner. We own the rental portion of the development on floors 3 through 19 and the partner owns the for-sale condominium portion of the development on floors 20 through 30. The information above represents only our portion of the project. We provided a construction loan to the development partner, which is being repaid with proceeds the partner receives from the sale of the condominium portion of the project. The balance as of December 31, 2018 was \$12.8 million, representing outstanding principal and interest, net of repayments, as discussed in Note 5, "Investments in Real Estate Entities," of the Consolidated Financial Statements set forth in Item 8 of this report.
- (3) In February 2017, a fire occurred at Avalon Maplewood. See "Insurance and Risk of Uninsured Losses" for further discussion.
- (4) We developed this project within an unconsolidated joint venture that was formed in July 2016, in which we own a 55.0% interest. The information above represents the total cost for the venture.

#### Redevelopment Communities

As of December 31, 2018, we had nine communities under redevelopment. We expect the total capitalized cost to redevelop these communities to be \$177,000,000, excluding costs incurred prior to redevelopment. We have found that the cost to redevelop an existing apartment community is more difficult to budget and estimate than the cost to develop a new community. Accordingly, we expect that actual costs may vary from our budget by a wider range than for a new Development Community. We cannot assure you that we will meet our schedule for reconstruction completion or for attaining restabilized operations, or that we will meet our budgeted costs, either individually or in the aggregate. We anticipate maintaining or increasing our current level of redevelopment activity related to communities in our current operating portfolio. In addition, during 2018, we completed the reconstruction of the building that was destroyed in the Edgewater casualty loss in 2015. The new Edgewater building contains 240 apartment homes and was reconstructed for a total capitalized cost of \$61,000,000, excluding costs incurred prior to the start of reconstruction. You should carefully review Item 1A. "Risk Factors" for a discussion of the risks associated with redevelopment activity.

The following presents a summary of these Redevelopment Communities:

	Number of apartment homes	Projected total capitalized cost (\$ millions) (1)(2)	Reconstruction start	Estimated reconstruction completion (2)	Estimated restabilized operations (3)
1. Avalon Prudential Center II <i>Boston, MA</i>	266	\$ 19	Q1 2017	Q4 2019	Q2 2020
2. AVA Van Ness <i>Washington, D.C.</i>	269	20	Q3 2017	Q1 2019	Q3 2019
3. Avalon Ballston Square <i>Arlington, VA</i>	714	25	Q4 2017	Q2 2019	Q4 2019
4. Eaves Seal Beach <i>Seal Beach, CA</i>	549	32	Q1 2018	Q4 2019	Q2 2020
5. Eaves Redmond Campus <i>Redmond, WA</i>	422	24	Q1 2018	Q2 2019	Q4 2019
6. Eaves Fairfax Towers <i>Falls Church, VA</i>	415	14	Q1 2018	Q4 2019	Q2 2020
7. Avalon Prudential Center I <i>Boston, MA</i>	243	18	Q1 2018	Q1 2020	Q3 2020
8. Avalon Court <i>Melville, NY</i>	494	15	Q1 2018	Q3 2019	Q1 2020
9. Avalon Studio City <i>Studio City, CA</i>	276	10	Q2 2018	Q1 2019	Q3 2019
<b>Total</b>	<b>3,648</b>	<b>\$ 177</b>			

- (1) Projected total capitalized cost does not include capitalized costs incurred prior to redevelopment.
- (2) Projected total capitalized costs represent the aggregate of any multiple phase redevelopments and the estimated reconstruction completion dates reflect all planned phases.
- (3) Estimated restabilized operations is defined as the earlier of (i) attainment of 95% or greater physical occupancy or (ii) the one-year anniversary of completion of redevelopment.

#### Development Rights

At December 31, 2018, we had \$84,712,000 in acquisition and related capitalized costs for direct interests in land parcels we own, and \$47,443,000 in capitalized costs (including legal fees, design fees and related overhead costs) related to Development Rights for which we control the land parcel, typically through a conditional agreement or option to purchase or lease the land. Collectively, the land held for development and associated costs for deferred development rights relate to 28 Development Rights for which we expect to develop new apartment communities in the future. The cumulative capitalized costs for land held for development as of December 31, 2018 includes \$74,342,000 in original land acquisition costs, net of any impairment loss recognized. The Development Rights range from those beginning design and architectural planning to those that have completed site plans and drawings and can begin construction almost immediately. We estimate that the successful completion of all of these communities would ultimately add approximately 9,769 apartment homes to our portfolio. Substantially all of these apartment homes will offer features like those offered by the communities we currently own.

For 21 Development Rights, we control the land through a conditional agreement or option to purchase or lease the parcel. While we generally prefer to hold Development Rights through conditional agreements or options to acquire land, for one Development Right we currently own the land on which a community would be built if we proceeded with development. In addition, six Development Rights are additional development phases of existing stabilized operating communities we own and will be constructed on land currently associated with, or adjacent to, those operating communities. During the next 12 months we expect to commence construction of an apartment community on the Development Right for which we currently own the land, with a carrying basis of \$84,712,000.

The properties comprising the Development Rights are in different stages of the due diligence and regulatory approval process. The decisions as to which of the Development Rights to invest in, if any, or to continue to pursue once an investment in a Development Right is made, are business judgments that we make after we perform financial, demographic and other analyses. In the event that we do not proceed with a Development Right, we generally would not recover any of the capitalized costs incurred in the pursuit of those communities, unless we were to recover amounts in connection with the sale of land; however, we cannot guarantee a recovery. Pre-development costs incurred in the pursuit of Development Rights, for which future development is not yet considered probable, are expensed as incurred. In addition, if the status of a Development Right changes, making future development no longer probable, any capitalized pre-development costs are charged to expense. During 2018, we incurred a charge of \$4,309,000 for development pursuits that were not yet probable of future development at the time incurred, or for pursuits that we determined were no longer probable of being developed.

You should carefully review Item 1A. “Risk Factors,” for a discussion of the risks associated with Development Rights.

The following presents a summary of the Development Rights:

Market	Number of rights	Estimated number of homes	Projected total capitalized cost (\$ millions) (1)
New England	6	1,233	\$ 446
Metro NY/NJ	8	3,955	1,710
Mid-Atlantic	1	437	99
Pacific Northwest	2	552	169
Northern California	5	1,543	829
Southern California	4	1,444	677
Denver	2	605	194
<b>Total</b>	<b>28</b>	<b>9,769</b>	<b>\$ 4,124</b>

(1) Projected total capitalized cost includes all capitalized costs incurred to date (if any) and projected to be incurred to develop the respective community, determined in accordance with GAAP, including land acquisition costs, construction costs, real estate taxes, capitalized interest and loan fees, permits, professional fees, allocated development overhead and other regulatory fees, as well as costs incurred for first generation retail tenants such as tenant improvements and leasing commissions.

#### Land Acquisitions

We select land for development and follow established procedures that we believe minimize both the cost and the risks of development. During 2018, we acquired land parcels for seven Development Rights, as shown in the table below, for an aggregate investment of \$140,563,000. For all of the parcels, construction has either started or is expected to start within the next six months.

		Estimated number of apartment homes	Projected total capitalized cost (1) (\$ millions)	Date acquired
1.	Avalon Yonkers (2) <i>Yonkers, NY</i>	590	\$ 188	January 2018
2.	Avalon Norwood <i>Norwood, MA</i>	198	61	January 2018
3.	Avalon Public Market (2) <i>Emeryville, CA</i>	289	163	February 2018
4.	Avalon Brea Place <i>Brea, CA</i>	653	284	February and May 2018
5.	Avalon Towson <i>Towson, MD</i>	371	114	March 2018
6.	Avalon Doral <i>Doral, FL</i>	350	111	May 2018
7.	Avalon Old Bridge <i>Old Bridge, NJ</i>	252	66	October 2018
	<b>Total</b>	<b>2,703</b>	<b>\$ 987</b>	

- (1) Projected total capitalized cost includes all capitalized costs incurred to date (if any) and projected to be incurred to develop the respective community, determined in accordance with GAAP, including land and related acquisition costs, construction costs, real estate taxes, capitalized interest and loan fees, permits, professional fees, allocated development overhead and other regulatory fees, as well as costs incurred for first generation retail tenants such as tenant improvements and leasing commissions, net of projected proceeds for any planned sales of associated outparcels and other real estate.
- (2) Additional parcel of land acquired in 2018 for a current Development Community. The estimated number of apartment homes and projected total capitalized cost represent the amounts for the full Development Community.

#### Disposition Activity

We sell assets when they do not meet our long-term investment strategy or when real estate markets allow us to realize a portion of the value created over our periods of ownership, and we generally redeploy the proceeds from those sales to develop, redevelop and acquire communities. Pending such redeployment, we will generally use the proceeds from the sale of these communities to reduce amounts outstanding under our Credit Facility or retain the cash proceeds on our balance sheet until it is redeployed into acquisition, development or redevelopment activity. On occasion, we will set aside the proceeds from the sale of communities into a cash escrow account to facilitate a tax deferred, like-kind exchange transaction. From January 1, 2018 to January 31, 2019, we sold our interest in nine wholly-owned operating communities, containing 1,982 apartment homes, with an aggregate gross sales price of \$688,750,000, excluding the five wholly-owned operating communities contributed to the NYC Joint Venture.

#### Insurance and Risk of Uninsured Losses

We maintain commercial general liability insurance and property insurance with respect to all of our communities. These policies, along with other insurance policies we maintain, have policy specifications, insured and self-insured limits, exclusions and deductibles that we consider commercially reasonable. There are, however, certain types of losses (including, but not limited to, losses arising from nuclear liability or acts of war) that are not insured, in full or in part, because they are either uninsurable or the cost of insurance makes it, in management’s view, economically impractical. You should carefully review the discussion under Item 1A. “Risk Factors” of this Form 10-K for a discussion of risks associated with an uninsured property or casualty loss.

Many of our West Coast communities are located in the general vicinity of active earthquake faults. Many of our communities are near, and thus susceptible to, the major fault lines in California, including the San Andreas Fault, the Hayward Fault or other geological faults that are known or unknown. We cannot assure you that an earthquake would not cause damage or losses greater than our current insured levels. We procure property damage and resulting business interruption insurance coverage with a loss limit of \$175,000,000 for any single occurrence and in the annual aggregate for losses resulting from earthquakes. However, for any losses resulting from earthquakes at communities located in California or Washington, the loss limit is \$150,000,000 for any single occurrence and in the annual aggregate. The deductible applicable to losses resulting from earthquakes occurring in California is five percent of the insured value of each damaged building subject to a minimum of \$100,000 and a maximum of \$25,000,000 per loss. Limits, deductibles, self-insured retentions and coverages may increase or decrease annually during the insurance renewal process which occurs on different dates throughout the calendar year.

Our communities are insured for certain property damage and business interruption losses through a combination of community specific insurance policies and/or a master property insurance program which covers the majority of our communities. This master property program provides a \$400,000,000 limit for any single occurrence, subject to certain sublimits and exclusions. Under the master property program, we are subject to a \$100,000 deductible per occurrence, as well as additional self-insured retention for the next \$350,000 of loss, per occurrence, until the aggregate incurred self-insured retention exceeds \$1,500,000 for the policy year.

Our communities are insured for third-party liability losses through a combination of community specific insurance policies and/or coverage provided under a master commercial general liability and umbrella/excess insurance program. The master commercial general liability and umbrella/excess insurance policies cover the majority of our communities and are subject to certain coverage limitations and exclusions, and they require a self-insured retention of \$500,000 per occurrence.

We also maintain certain casualty policies (general liability, umbrella/excess and workers compensation) for construction related risks which have various exclusions and deductibles that, in management's view, are commercially reasonable. Certain projects are insured through our master insurance policies while others are insured through project-specific insurance policies. The limits vary by project and may be subject to deductibles up to \$1,500,000 per occurrence.

We utilize a wholly-owned captive insurance company to insure certain types and amounts of risks, which includes property damage and resulting business interruption losses, general liability insurance and other construction related liability risks. In addition to our potential liability for the various policy self-insured retentions and deductibles, our captive insurance company is directly responsible for (i) 25% of the first \$50,000,000 of losses (per occurrence) incurred by the master property insurance policy and (ii) covered liability claims arising out of our commercial general liability policy, subject to a \$2,000,000 per occurrence loss limit. The captive is utilized to insure other limited levels of risk, which may be in part reinsured by third party insurance.

Just as with office buildings, transportation systems and government buildings, there have been reports that apartment communities could become targets of terrorism. Our communities are insured for terrorism related losses through the Terrorism Risk Insurance Program Reauthorization Act ("TRIPRA") program. This coverage extends to most of our casualty exposures (subject to deductibles and insured limits) and certain property insurance policies. We have also purchased private-market insurance for property damage due to terrorism with limits of \$600,000,000 per occurrence and in the annual aggregate that includes certain coverages (not covered under TRIPRA) such as domestic-based terrorism. This insurance, often referred to as "non-certified" terrorism insurance, is subject to deductibles, limits and exclusions.

An additional consideration for insurance coverage and potential uninsured losses is mold growth or other environmental contamination. Mold growth may occur when excessive moisture accumulates in buildings or on building materials, particularly if the moisture problem remains undiscovered or is not addressed over a period of time. If a significant mold problem arises at one of our communities, we could be required to undertake a costly remediation program to contain or remove the mold from the affected community and could be exposed to other liabilities. For further discussion of the risks and our related prevention and remediation activities, please refer to the discussion under Item 1A. "Risk Factors - We may incur costs due to environmental contamination or non-compliance" elsewhere in this report. We cannot provide assurance that we will have coverage under our existing policies for property damage or liability to third parties arising as a result of exposure to mold or a claim of exposure to mold at one of our communities.

We also carry crime policies (also commonly referred to as a fidelity policy or employee dishonesty policy) and limited cyber liability insurance. The crime policies protect us, up to \$30,000,000 per occurrence (subject to sublimits and exclusions), from employee theft of money, securities or property. The limited cyber liability insurance is part of our professional liability coverage and has limits of \$15,000,000 per occurrence and in the annual aggregate. The cyber liability coverage protects us from certain claims arising out of data breach, wrongful acts, data privacy issues and media liability.

The amount or types of insurance we maintain may not be sufficient to cover all losses.

#### *Maplewood Casualty Loss*

In February 2017, a fire occurred at Avalon Maplewood, located in Maplewood, NJ ("Maplewood"), which at the time was under construction and not yet occupied. The Company completed reconstruction of the damaged and destroyed portions of the community as well as the vertical construction of the community in 2018. In 2017, we reached a final insurance settlement for the property damage and lost income for the Maplewood casualty loss of \$19,696,000, after self-insurance and deductibles, of which \$3,495,000 was recognized as business interruption insurance proceeds.

#### *Edgewater Casualty Loss*

In January 2015, a fire occurred at our Avalon at Edgewater apartment community located in Edgewater, NJ ("Edgewater"). Edgewater consisted of two residential buildings. One building, containing 240 apartment homes, was destroyed. The second building, containing 168 apartment homes, suffered minimal damage and has been repaired. In January 2016, we reached a final settlement with our property and casualty insurers regarding the property damage and lost income related to the Edgewater casualty loss, for which we received aggregate insurance proceeds of \$73,150,000, after self-insurance and deductibles. We received \$44,142,000 of these recoveries in 2015, and the remaining \$29,008,000 in 2016, of which \$8,702,000 was recognized as an additional net casualty gain and \$20,306,000 as business interruption insurance proceeds.

In 2017, we commenced the reconstruction of the destroyed building, which we completed in 2018.

To date, a number of lawsuits on behalf of former residents have been filed against us, including four class actions, approximately 23 individual actions, and subrogation actions by insurers who provided renters insurance to our residents. While we can give no assurances, we believe that any remaining liability will be covered by third party insurance and/or will not have a material impact on our statement of financial position or operations.

### ITEM 3. LEGAL PROCEEDINGS

As discussed immediately above, in January 2015, a fire occurred at the Company's Avalon at Edgewater apartment community in Edgewater, NJ. The Company believes that the fire was caused by sparks from a torch used during repairs being performed by a Company employee who was not a licensed plumber. The Company has since revised its maintenance policies to require that non-flame tools be used for plumbing repairs where possible or, where not possible inside the building envelope, that a qualified third party vendor perform the work in accordance with the Company's policies.

The Company has established protocols for processing claims from third parties who suffered losses as a result of the fire, and many third parties have contacted the Company's insurance carrier and settled their claims. Through the date of this Form 10-K, of the 229 occupied apartments destroyed in the fire, the residents of approximately 95 units have settled claims with the Company's insurer through this claims process.

With regard to the building that was destroyed, three class action lawsuits have been filed against the Company on behalf of occupants and consolidated in the United States District Court for the District of New Jersey. The Company has agreed with class counsel to the terms of a settlement which provides a claims process (with agreed upon protocols for instructing the adjuster as to how to evaluate claims) and, if needed, an arbitration process to determine damage amounts to be paid to individual claimants covered by the class settlement. In July 2017, the District Court granted final approval of the class action settlement and all claims have been submitted to the independent claims adjuster. A total of 66 units (consisting of residents who did not previously settle their claims and who did not opt out of the class settlement) are included in the class action settlement and bound by its terms. However, only approximately 45 units submitted claims. The independent claims adjuster is currently reviewing the claims submitted; the submitted claims total approximately \$6,900,000 but, based on the Company's review of initial determinations made by the adjuster on a number of claims, the Company believes that the total amount actually awarded will be significantly less. To date, the claims adjuster completed its evaluation of 37 of these claims and it is expected that the evaluation of the remaining claims should be completed within the next month. In addition to the class action lawsuits described above, the Company has resolved litigated claims with tenants of approximately 60 units. There is currently one remaining resident lawsuit with respect to the destroyed building filed in the Superior Court of New Jersey, Bergen County - Law Division; the Company believes it has meritorious defenses to the extent of damages claimed in that suit. A number of subrogation lawsuits had been filed against the Company by insurers of Edgewater residents who obtained renters insurance; these lawsuits have been resolved or are expected to be resolved during the first quarter of 2019. A fourth class action, being heard in the same federal court, was filed against the Company on behalf of a purported class of residents of the second Edgewater building that suffered minimal damage; in October 2018, the court certified the class and the case will continue as a class action.

Having settled many third party claims as described above, while the Company can give no assurances, the Company currently believes that any potential remaining liability to third parties (including any potential liability to third parties determined in accordance with the class settlement described above) will not be material to the Company and will in any event be substantially covered by the Company's insurance policies.

The Company is involved in various other claims and/or administrative proceedings unrelated to the Edgewater casualty loss that arise in the ordinary course of its business. While no assurances can be given, the Company does not currently believe that any of these other outstanding litigation matters, individually or in the aggregate, will have a material adverse effect on its financial condition or results of operations.

### ITEM 4. MINE SAFETY DISCLOSURES

Not Applicable.

## PART II

### ITEM 5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES

Our common stock is traded on the NYSE under the ticker symbol AVB. On January 31, 2019 there were 476 holders of record of an aggregate of 138,508,567 shares of our outstanding common stock. The number of holders does not include individuals or entities who beneficially own shares but whose shares are held of record by a broker or clearing agency, but does include each such broker or clearing agency as one record holder.

At present, we expect to continue our policy of paying regular quarterly cash dividends. However, the form, timing and/or amount of dividend distributions will be declared at the discretion of the Board of Directors and will depend on actual cash from operations, our financial condition, capital requirements, the annual distribution requirements under the REIT provisions of the Code and other factors as the Board of Directors may consider relevant. The Board of Directors may modify our dividend policy from time to time.

In February 2019, we announced that our Board of Directors declared a dividend on our common stock for the first quarter of 2019 of \$1.52 per share, a 3.4% increase over the previous quarterly dividend per share of \$1.47. The dividend will be payable on April 15, 2019 to all common stockholders of record as of March 29, 2019.

#### Issuer Purchases of Equity Securities

Period	(a) Total Number of Shares Purchased (1)	(b) Average Price Paid per Share	(c) Total Number of Shares Purchased as Part of Publicly Announced Plans or Programs	(d) Maximum Dollar Amount that May Yet be Purchased Under the Plans or Programs (in thousands) (2)
October 1 - October 31, 2018	77	\$ 172.79	—	\$ 200,000
November 1 - November 30, 2018	—	\$ —	—	\$ 200,000
December 1 - December 31, 2018	525	\$ 190.71	—	\$ 200,000

(1) Reflects shares surrendered to the Company in connection with exercise of stock options as payment of exercise price, as well as for taxes associated with the vesting of restricted share grants.

(2) As disclosed in our Form 10-Q for the quarter ended March 31, 2008, represents amounts outstanding under the Company's \$500,000,000 Stock Repurchase Program. There is no scheduled expiration date to this program.

Information regarding securities authorized for issuance under equity compensation plans is included in the section entitled Item 12. "Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters" in this Form 10-K.

## ITEM 6. SELECTED FINANCIAL DATA

The following table provides historical consolidated financial, operating and other data for the Company. You should read the table with our Consolidated Financial Statements and the Notes included in this report (dollars in thousands, except per share data).

	For the year ended				
	12/31/18	12/31/17	12/31/16	12/31/15	12/31/14
<b>Operating data:</b>					
Total revenue	\$ 2,284,535	\$ 2,158,628	\$ 2,045,255	\$ 1,856,028	\$ 1,685,061
Gain on sale of communities	\$ 374,976	\$ 252,599	\$ 374,623	\$ 115,625	\$ 84,925
Gain (loss) on other real estate transactions	\$ 345	\$ (10,907)	\$ 10,224	\$ 9,647	\$ 490
Income from continuing operations	\$ 974,175	\$ 876,660	\$ 1,033,708	\$ 741,733	\$ 659,148
Income from discontinued operations	\$ —	\$ —	\$ —	\$ —	\$ 38,179
Net income	\$ 974,175	\$ 876,660	\$ 1,033,708	\$ 741,733	\$ 697,327
Net income attributable to common stockholders	\$ 974,525	\$ 876,921	\$ 1,034,002	\$ 742,038	\$ 683,567
<b>Per Common Share and Share Information:</b>					
Earnings per common share—basic:					
Income from continuing operations attributable to common stockholders (net of dividends attributable to preferred stock)	\$ 7.05	\$ 6.36	\$ 7.53	\$ 5.54	\$ 4.93
Discontinued operations attributable to common stockholders	—	—	—	—	0.29
Net income attributable to common stockholders	\$ 7.05	\$ 6.36	\$ 7.53	\$ 5.54	\$ 5.22
Weighted average shares outstanding—basic (1)	137,844,755	137,523,771	136,928,251	133,565,711	130,586,718
Earnings per common share—diluted:					
Income from continuing operations attributable to common stockholders (net of dividends attributable to preferred stock)	\$ 7.05	\$ 6.35	\$ 7.52	\$ 5.51	\$ 4.92
Discontinued operations attributable to common stockholders	—	—	—	—	0.29
Net income attributable to common stockholders	\$ 7.05	\$ 6.35	\$ 7.52	\$ 5.51	\$ 5.21
Weighted average shares outstanding—diluted	138,289,241	138,066,686	137,461,637	134,593,177	131,237,502
Cash dividends declared	\$ 5.88	\$ 5.68	\$ 5.40	\$ 5.00	\$ 4.64
<b>Other Information:</b>					
Net income attributable to common stockholders	\$ 974,525	\$ 876,921	\$ 1,034,002	\$ 742,038	\$ 683,567
Depreciation	631,196	584,150	531,434	477,923	442,682
Interest expense, net (2)	238,466	225,133	194,585	148,879	181,030
Income tax (benefit) expense	(160)	141	305	1,483	9,368
EBITDA (3)	\$ 1,844,027	\$ 1,686,345	\$ 1,760,326	\$ 1,370,323	\$ 1,316,647
Funds from Operations attributable to common stockholders (4)	\$ 1,218,752	\$ 1,167,218	\$ 1,135,762	\$ 1,083,085	\$ 951,035
Core Funds from Operations (4)	\$ 1,244,286	\$ 1,189,976	\$ 1,125,341	\$ 1,016,035	\$ 890,081
Number of Current Communities (5)	270	267	258	259	251
Number of apartment homes	78,549	77,614	74,538	75,584	73,963
<b>Balance Sheet Information:</b>					
Real estate, before accumulated depreciation	\$ 22,342,577	\$ 21,935,936	\$ 20,776,626	\$ 19,268,099	\$ 17,849,316
Total assets	\$ 18,380,200	\$ 18,414,821	\$ 17,867,271	\$ 16,931,305	\$ 16,140,578
Notes payable and unsecured credit facilities, net	\$ 7,040,263	\$ 7,329,470	\$ 7,030,880	\$ 6,456,948	\$ 6,489,707
<b>Cash Flow Information:</b>					
Net cash flows provided by operating activities	\$ 1,301,111	\$ 1,256,257	\$ 1,160,272	\$ 1,074,667	\$ 891,355
Net cash flows used in investing activities	\$ (596,651)	\$ (965,381)	\$ (1,032,352)	\$ (1,199,517)	\$ (816,760)
Net cash flows (used in) provided by financing activities	\$ (688,502)	\$ (418,947)	\$ (303,271)	\$ 25,093	\$ 150,571

(1) Amounts do not include unvested restricted shares included in the calculation of Earnings per Share. Please refer to Note 1, “Organization, Basis of Presentation and Significant Accounting Policies—Earnings per Common Share,” of the Consolidated Financial Statements set forth in Item 8 of this report for a discussion of the calculation of Earnings per Share.

(2) Interest expense, net includes any gain or loss incurred from the extinguishment of debt.

(3) EBITDA is defined as net income before interest income and expense, income taxes, depreciation and amortization from both continuing and discontinued operations. Under this definition, EBITDA includes gains on sale of assets and gain on sale of partnership interests. Management generally considers EBITDA to be an appropriate supplemental measure to net income of our operating performance because it helps investors to understand our ability to incur and service debt and to make capital expenditures. EBITDA should not be considered as an alternative to net income (as determined in accordance with GAAP), as an indicator of our operating performance, or to cash flows from operating activities (as determined in accordance with GAAP) as a measure of liquidity. Our calculation of EBITDA may not be comparable to EBITDA as calculated by other companies.

(4) Refer to “Reconciliation of Non-GAAP Financial Measures” below.

(5) Current Communities consist of all communities other than those which are still under construction and for which a certificate or certificates of occupancy for the entire community have not been received.

### Reconciliation of Non-GAAP Financial Measures

Funds from Operations attributable to common stockholders, or “FFO,” and FFO adjusted for non-core items, or “Core FFO,” as defined below, are generally considered by management to be appropriate supplemental measures of our operating and financial performance. In calculating FFO, we exclude gains or losses related to dispositions of previously depreciated property and exclude real estate depreciation, which can vary among owners of identical assets in similar condition based on historical cost accounting and useful life estimates. FFO can help one compare the operating performance of a real estate company between periods or as compared to different companies. By further adjusting for items that are not considered part of our core business operations, Core FFO allows one to compare the core operating performance of the Company year over year. We believe that in order to understand our operating results, FFO and Core FFO should be examined with net income as presented in the Consolidated Statements of Comprehensive Income included elsewhere in this report.

Consistent with the definition adopted by the Board of Governors of the National Association of Real Estate Investment Trusts® (“NAREIT”), we calculate FFO as net income or loss attributable to common stockholders computed in accordance with GAAP, adjusted for:

- gains or losses on sales of previously depreciated operating communities;
- cumulative effect of change in accounting principle;
- impairment write-downs of depreciable real estate assets;
- write-downs of investments in affiliates due to a decrease in the value of depreciable real estate assets held by those affiliates;
- depreciation of real estate assets; and
- adjustments for unconsolidated partnerships and joint ventures, including those from a change in control.

We calculate Core FFO as FFO, adjusted for:

- joint venture gains (if not adjusted through FFO), non-core costs, and promoted interests;
- casualty and impairment losses or gains, net on non-depreciable real estate;
- gains or losses from early extinguishment of consolidated borrowings;
- abandoned pursuits;
- business interruption insurance proceeds and the related lost NOI that is covered by the business interruption insurance proceeds;
- property and casualty insurance proceeds and legal settlements;
- gains or losses on sales of assets not subject to depreciation;
- hedge ineffectiveness;
- severance related costs;
- advocacy contributions;
- income taxes;
- expensed acquisition costs related to business acquisitions that occurred prior to the adoption of ASU 2017-01 as of October 1, 2016, as discussed in Note 1, “Organization, Basis of Presentation and Significant Accounting Policies,” of the Consolidated Financial Statements set forth in Item 8 of this report; and
- other non-core items.

FFO and Core FFO do not represent net income in accordance with GAAP, and therefore should not be considered an alternative to net income, which remains the primary measure, as an indication of our performance. In addition, FFO and Core FFO as calculated by other REITs may not be comparable to our calculations of FFO and Core FFO.

FFO and Core FFO also do not represent cash generated from operating activities in accordance with GAAP, and therefore should not be considered an alternative to net cash flows from operating activities, as determined by GAAP, as a measure of liquidity. Additionally, it is not necessarily indicative of cash available to fund cash needs. A presentation of GAAP based cash flow metrics is provided in “Cash Flow Information” in the table above.

The following is a reconciliation of net income attributable to common stockholders to FFO attributable to common stockholders and to Core FFO attributable to common stockholders (dollars in thousands, except per share data).

	For the year ended				
	12/31/18	12/31/17	12/31/16	12/31/15	12/31/14
Net income attributable to common stockholders	\$ 974,525	\$ 876,921	\$ 1,034,002	\$ 742,038	\$ 683,567
Depreciation—real estate assets, including discontinued operations and joint venture adjustments	629,814	582,907	538,606	486,019	449,769
Distributions to noncontrolling interests, including discontinued operations	44	42	41	38	35
Gain on sale of unconsolidated entities holding previously depreciated real estate assets	(10,655)	(40,053)	(58,069)	(33,580)	(73,674)
Gain on sale of previously depreciated real estate assets (1)	(374,976)	(252,599)	(374,623)	(115,625)	(108,662)
Casualty and impairment (recovery) loss, net on real estate (2) (7)	—	—	(4,195)	4,195	—
FFO attributable to common stockholders	\$ 1,218,752	\$ 1,167,218	\$ 1,135,762	\$ 1,083,085	\$ 951,035
Adjusting items:					
Joint venture losses (gains) (3)	852	950	6,031	(9,059)	(5,194)
Joint venture promote (4)	(925)	(26,742)	(7,985)	(21,969)	(58,128)
Impairment loss on real estate (5) (7)	826	9,350	10,500	800	—
Casualty (gain) loss, net on real estate (6) (7)	(612)	(3,100)	(10,239)	(15,538)	—
Business interruption insurance proceeds (8)	(26)	(3,495)	(20,565)	(1,509)	(2,494)
Lost NOI from casualty losses covered by business interruption insurance (9)	1,730	7,904	7,366	7,862	—
Loss (gain) on extinguishment of consolidated debt	17,492	25,472	7,075	(26,736)	412
Advocacy contributions	3,489	—	—	—	—
Hedge ineffectiveness	—	(753)	—	—	—
Severance related costs	1,466	87	852	1,999	815
Development pursuit and other write-offs	1,324	1,406	3,662	1,838	2,564
(Gain) loss on sale of other real estate transactions	(344)	10,907	(10,224)	(9,647)	(490)
Acquisition costs (10)	—	92	3,523	3,806	(7,682)
Legal settlements	513	680	(417)	—	—
Income tax (benefit) expense (11)	(251)	—	—	1,103	9,243
Core FFO attributable to common stockholders	\$ 1,244,286	\$ 1,189,976	\$ 1,125,341	\$ 1,016,035	\$ 890,081
Weighted average common shares outstanding - diluted	138,289,241	138,066,686	137,461,637	134,593,177	131,237,502
EPS per common share - diluted	\$ 7.05	\$ 6.35	\$ 7.52	\$ 5.51	\$ 5.21
FFO per common share - diluted	\$ 8.81	\$ 8.45	\$ 8.26	\$ 8.05	\$ 7.25
Core FFO per common share - diluted	\$ 9.00	\$ 8.62	\$ 8.19	\$ 7.55	\$ 6.78

(1) Amount for 2014 excludes a gain of \$14,132, representing our joint venture partners' portion of the gain on sale from a Fund I community which we consolidated for financial reporting purposes.

(2) During 2015, we recognized an impairment on depreciable real estate of \$4,195 from the severe winter storms that occurred in our Northeast markets. During 2016, we received insurance proceeds, net of additional costs incurred, of \$5,732 related to the winter storms, and recognized \$4,195 of this recovery as an offset to the loss recognized in the prior year period. The balance of the net insurance proceeds received in 2016 of \$1,537 is recognized as a casualty gain and is included in the reconciliation of FFO to Core FFO.

(3) Amounts for 2018, 2017 and 2016 are primarily composed of (i) the write-off of asset management fee intangibles primarily associated with the disposition of communities in the U.S. Fund in 2018, 2017 and 2016 and the AC JV in 2018, (ii) our proportionate share of yield maintenance charges incurred for the early repayment of debt associated with joint venture disposition activity, and (iii) our proportionate share of operating results for joint ventures formed with Equity Residential as part of the Archstone Acquisition. Amounts for 2014 and

2015 are primarily composed of our proportionate share of gains and operating results for joint ventures formed with Equity Residential as part of the Archstone Acquisition.

(4) Amounts for 2018, 2017 and 2016 are composed of the recognition of our promoted interest in AvalonBay Value Added Fund II, L.P. (“Fund II”). Amount for 2015 is primarily composed of amounts received related to the modification of the joint venture agreement for the entity that owns Avalon at Mission Bay II to eliminate our promoted interest in future distributions. Amount for 2014 relates to our promoted interests from the sale of Avalon Chrystie Place.

(5) Amounts include impairment charges relating to ancillary land parcels.

(6) Amount for 2018 includes \$554 in legal settlement proceeds relating to construction defects at a community acquired as part of the Archstone Acquisition. Amount for 2017 includes \$19,481 for the Maplewood casualty loss, partially offset by \$17,143 of property damage insurance proceeds, and \$5,438 in legal settlement proceeds relating to construction defects at a community acquired as part of the Archstone Acquisition. Amount for 2016 includes \$8,702 in property damage insurance proceeds for the Edgewater casualty loss, and \$1,537 in insurance proceeds in excess of the total recognized loss related to severe winter storms in our Northeast markets that occurred in 2015. Amount for 2015 includes \$44,142 of Edgewater insurance proceeds received partially offset by \$28,604 for the write-off of real estate and related costs.

(7) The aggregate impact of (i) casualty and impairment (recovery) loss, net on real estate, (ii) impairment loss on real estate and (iii) casualty (gain) loss, net on real estate for 2018 and 2017 are losses of \$215 and \$6,250, respectively, and for 2016 and 2015 are gains of \$3,935 and \$10,542, respectively.

(8) Amount for 2017 is composed of business interruption insurance proceeds resulting from the final insurance settlement of the Maplewood casualty loss. Amount for 2016 is primarily composed of business interruption insurance proceeds resulting from the final insurance settlement of the Edgewater casualty loss.

(9) Amounts for 2017, 2016 and 2015 primarily relate to lost NOI resulting from the Edgewater casualty loss, for which we received \$20,306 in business interruption insurance proceeds in the first quarter of 2016. Amount for 2018, as well as a portion of the amount for 2017, relates to the Maplewood casualty loss, for which we received \$3,495 in business interruption insurance proceeds in the third quarter of 2017.

(10) Amount for 2014 is primarily composed of receipts related to communities acquired as part of the Archstone Acquisition for periods prior to our ownership, which are primarily comprised of property tax and mortgage insurance refunds.

(11) Amounts for 2015 and 2014 are composed of income taxes on income that was earned in taxable REIT subsidiaries and that is not considered to be a component of primary operations. Amount for 2018 represents a partial refund for payments in prior years.

## ITEM 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

Management's Discussion and Analysis of Financial Condition and Results of Operations ("MD&A") is intended to help provide an understanding of our business, financial condition and results of operations. This MD&A should be read in conjunction with our Consolidated Financial Statements and the accompanying Notes to Consolidated Financial Statements included elsewhere in this report. This report, including the following MD&A, contains forward-looking statements regarding future events or trends that should be read in conjunction with the factors described under "Forward-Looking Statements" included in this report. Actual results or developments could differ materially from those projected in such statements as a result of the factors described under "Forward-Looking Statements" as well as the risk factors described in Item 1A. "Risk Factors" of this report.

Capitalized terms used without definition have the meanings provided elsewhere in this Form 10-K.

### Executive Overview

#### *Business Description*

Our strategic vision is to be the leading apartment company in select U.S. markets, providing a range of distinctive living experiences that customers value. We pursue this vision by targeting what we believe are among the best markets and submarkets, leveraging our strategic capabilities in market research and consumer insight and being disciplined in our capital allocation and balance sheet management. Our communities are predominately upscale and generally command among the highest rents in their markets. However, we also pursue the ownership and operation of apartment communities that target a variety of customer segments and price points, consistent with our goal of offering a broad range of products and services. We regularly evaluate the allocation of our investments by the amount of invested capital and by product type within our individual markets.

We develop, redevelop, acquire, own and operate multifamily apartment communities primarily in New England, the New York/New Jersey metro area, the Mid-Atlantic, the Pacific Northwest, and Northern and Southern California. We focus on leading metropolitan areas that we believe are characterized by growing employment in high wage sectors of the economy, higher cost of home ownership and a diverse and vibrant quality of life. We believe these market characteristics offer the opportunity for superior risk-adjusted returns over the long-term on apartment community investments relative to other markets that do not have these characteristics. We believe that the Denver, Colorado, and Southeast Florida markets share these characteristics, and in 2017 we began to invest in these markets through acquisitions and developments. We seek to create long-term shareholder value by accessing capital on cost effective terms; deploying that capital to develop, redevelop and acquire apartment communities in our selected markets; operating apartment communities; and selling communities when they no longer meet our long-term investment strategy or when pricing is attractive.

#### *2018 Financial Highlights*

Net income attributable to common stockholders for the year ended December 31, 2018 was \$974,525,000, an increase of \$97,604,000, or 11.1%, over the prior year. The increase is primarily attributable to increases in real estate sales and related gains and NOI from newly developed, acquired and existing operating communities, as well as decreases in loss on extinguishment of debt, net and casualty and impairment loss. These amounts were partially offset by a decrease in gains on the sale of unconsolidated communities in various joint ventures and related promote income, coupled with increases in depreciation and interest expense.

Established Communities NOI for the year ended December 31, 2018 increased by \$26,248,000, or 2.3%, over the prior year. The increase was driven by an increase in rental revenue of 2.5%, partially offset by an increase in operating expenses of 3.2% over 2017.

During 2018, we raised approximately \$1,572,833,000 of gross capital through the issuance of unsecured notes, sale of common shares under CEP IV and the sale of consolidated operating communities and other real estate. This amount does not include proceeds from joint venture dispositions. The funds raised from the sale of real estate consist of the proceeds from the sale of eight operating communities, as well as the five communities contributed to the NYC Joint Venture and one ancillary land parcel. We believe that our current capital structure will continue to provide financial flexibility to access capital on attractive terms.

We believe our development activity will continue to create long-term value. During 2018, we completed the construction of seven communities containing an aggregate of 1,915 apartment homes and 10,000 square feet of retail space, for an aggregate total capitalized cost of \$742,000,000, or \$693,000,000 when including only our 55.0% interest in one community developed through an unconsolidated joint venture. We also started the construction of eight communities containing an aggregate of 2,154 apartment homes, which are expected to be completed for an estimated total capitalized cost of \$718,000,000. In addition, during 2018 we completed the redevelopment of eight communities containing an aggregate of 3,368 apartment homes for a total investment of \$217,000,000, excluding costs incurred prior to the redevelopment.

We also achieved portfolio growth through acquisitions, acquiring four communities containing an aggregate of 1,096 apartment homes for an aggregate purchase price of \$334,450,000.

We believe that our balance sheet strength, as measured by our current level of indebtedness, our current ability to service interest and other fixed charges, and our current moderate use of financial encumbrances (such as secured financing) provide us with adequate access to liquidity from the capital markets. We expect to be able to meet our reasonably foreseeable liquidity needs, as they arise, through a combination of one or more of the following sources: existing cash on hand; operating cash flows; borrowings under our Credit Facility; secured debt; the issuance of corporate securities (which could include unsecured debt, preferred equity and/or common equity); the sale of apartment communities; or through the formation of joint ventures. See the discussion under "Liquidity and Capital Resources."

### Communities Overview

As of December 31, 2018 we owned or held a direct or indirect ownership interest in 291 apartment communities containing 85,158 apartment homes in 12 states and the District of Columbia, of which 21 communities were under development and nine communities were under redevelopment. Of these communities, 15 were owned by entities that were not consolidated for financial reporting purposes, including five owned by the U.S. Fund, five owned by the NYC Joint Venture and two owned by the AC JV. In addition, we held a direct or indirect ownership interest in Development Rights to develop an additional 28 wholly-owned communities that, if developed as expected, will contain an estimated 9,769 apartment homes.

Our real estate investments consist primarily of Current Communities, Development Communities and Development Rights. Our Current Communities are further distinguished as Established Communities, Other Stabilized Communities, Lease-Up Communities, Redevelopment Communities and Unconsolidated Communities.

Established Communities are generally consolidated communities in markets where we have a significant presence that were owned and had stabilized occupancy as of the beginning of the prior year, allowing for a meaningful comparison of operating results between years. Other Stabilized Communities are generally all other completed consolidated communities that have stabilized occupancy during the fiscal year. Lease-Up Communities are consolidated communities where construction has been complete for less than one year and stabilized occupancy has not been achieved. Redevelopment Communities are consolidated communities where substantial redevelopment is in progress or is planned to begin during the fiscal year. Unconsolidated Communities are communities that we have an indirect ownership interest in through our investment interest in an unconsolidated joint venture. A more detailed description of our reportable segments and other related operating information can be found in Note 8, "Segment Reporting," of our Consolidated Financial Statements.

Although each of these categories is important to our business, we generally evaluate overall operating, industry and market trends based on the operating results of Established Communities, for which a detailed discussion can be found in "Results of Operations" as part of our discussion of overall operating results. We evaluate our current and future cash needs and future operating potential based on acquisition, disposition, development, redevelopment and financing activities within Other Stabilized, Redevelopment and Development Communities. Discussions related to current and future cash needs and financing activities can be found under "Liquidity and Capital Resources."

NOI of our current operating communities is one of the financial measures that we use to evaluate the performance of our communities. NOI is affected by the demand and supply dynamics within our markets, our rental rates and occupancy levels and our ability to control operating costs. Our overall financial performance is also impacted by the general availability and cost of capital and the performance of newly developed, redeveloped and acquired apartment communities.



## Results of Operations

Our year-over-year operating performance is primarily affected by both overall and individual geographic market conditions and apartment fundamentals and is reflected in changes in NOI of our Established Communities; NOI derived from acquisitions and development completions; the loss of NOI related to disposed communities; and capital market and financing activity. A comparison of our operating results for 2018, 2017 and 2016 follows (dollars in thousands):

	For the year ended			2018 vs. 2017		2017 vs. 2016	
	2018	2017	2016	\$ Change	% Change	\$ Change	% Change
<b>Revenue:</b>							
Rental and other income	\$ 2,280,963	\$ 2,154,481	\$ 2,039,656	\$ 126,482	5.9 %	\$ 114,825	5.6 %
Management, development and other fees	3,572	4,147	5,599	(575)	(13.9)%	(1,452)	(25.9)%
Total revenue	2,284,535	2,158,628	2,045,255	125,907	5.8 %	113,373	5.5 %
<b>Expenses:</b>							
Direct property operating expenses, excluding property taxes	441,155	428,451	406,577	12,704	3.0 %	21,874	5.4 %
Property taxes	241,563	221,375	204,837	20,188	9.1 %	16,538	8.1 %
Total community operating expenses	682,718	649,826	611,414	32,892	5.1 %	38,412	6.3 %
Corporate-level property management and other indirect operating expenses	80,133	69,559	67,038	10,574	15.2 %	2,521	3.8 %
Investments and investment management expense	7,709	5,936	4,822	1,773	29.9 %	1,114	23.1 %
Expensed acquisition, development and other pursuit costs, net of recoveries	4,309	2,736	9,922	1,573	57.5 %	(7,186)	(72.4)%
Interest expense, net	220,974	199,661	187,510	21,313	10.7 %	12,151	6.5 %
Loss on extinguishment of debt, net	17,492	25,472	7,075	(7,980)	(31.3)%	18,397	260.0 %
Depreciation expense	631,196	584,150	531,434	47,046	8.1 %	52,716	9.9 %
General and administrative expense	56,365	50,673	45,771	5,692	11.2 %	4,902	10.7 %
Casualty and impairment loss (gain), net	215	6,250	(3,935)	(6,035)	(96.6)%	10,185	N/A (1)
Total other expenses	1,018,393	944,437	849,637	73,956	7.8 %	94,800	11.2 %
Equity in income of unconsolidated real estate entities	15,270	70,744	64,962	(55,474)	(78.4)%	5,782	8.9 %
Gain on sale of communities	374,976	252,599	374,623	122,377	48.4 %	(122,024)	(32.6)%
Gain (loss) on other real estate transactions	345	(10,907)	10,224	11,252	N/A (1)	(21,131)	N/A (1)
Income before income taxes	974,015	876,801	1,034,013	97,214	11.1 %	(157,212)	(15.2)%
Income tax (benefit) expense	(160)	141	305	(301)	N/A (1)	(164)	(53.8)%
Net income	974,175	876,660	1,033,708	97,515	11.1 %	(157,048)	(15.2)%
Net loss attributable to noncontrolling interests	350	261	294	89	34.1 %	(33)	(11.2)%
Net income attributable to common stockholders	\$ 974,525	\$ 876,921	\$ 1,034,002	\$ 97,604	11.1 %	\$ (157,081)	(15.2)%

(1) Percent change is not meaningful.

Net income attributable to common stockholders increased \$97,604,000, or 11.1%, to \$974,525,000 in 2018 from 2017, primarily attributable to increases in real estate sales and related gains and NOI from newly developed, acquired and existing operating communities, as well as decreases in loss on extinguishment of debt, net and casualty and impairment loss. These amounts were partially offset by a decrease in gains on the sale of unconsolidated communities in various joint ventures and related promote income, coupled with increases in depreciation and interest expense. Net income attributable to common stockholders decreased \$157,081,000, or 15.2%, to \$876,921,000 in 2017 from 2016, primarily due to a decrease in real estate sales and related gains, coupled with increases in depreciation, loss on extinguishment of debt and interest expense, and a net casualty and impairment loss in the current year compared to a gain in the prior year. These amounts were partially offset by an increase in NOI from newly developed, acquired and existing operating communities.

NOI is considered by management to be an important and appropriate supplemental performance measure to net income because it helps both investors and management to understand the core operations of a community or communities prior to the allocation of any corporate-level or financing-related costs. NOI reflects the operating performance of a community and allows for an easier comparison of the operating performance of individual assets or groups of assets. In addition, because prospective buyers of real estate have different financing and overhead structures, with varying marginal impact to overhead as a result of acquiring real estate, NOI is considered by many in the real estate industry to be a useful measure for determining the value of a real estate asset or group of assets. We define NOI as total property revenue less direct property operating expenses (including property taxes), and excluding corporate-level income (including management, development and other fees), corporate-level property management and other indirect operating expenses, investments and investment management expenses, expensed acquisition, development and other pursuit costs, net of recoveries, interest expense, net, loss (gain) on extinguishment of debt, net, general and administrative expense, equity in income of unconsolidated real estate entities, depreciation expense, corporate income tax (benefit) expense, casualty and impairment loss (gain), net, gain on sale of communities, loss (gain) on other real estate transactions and net operating income from real estate assets sold or held for sale.

NOI does not represent cash generated from operating activities in accordance with GAAP, and NOI should not be considered an alternative to net income as an indication of our performance. NOI should also not be considered an alternative to net cash flow from operating activities, as determined by GAAP, as a measure of liquidity, nor is NOI indicative of cash available to fund cash needs. Reconciliations of NOI for the years ended December 31, 2018, 2017 and 2016 to net income for each year are as follows (dollars in thousands):

	For the year ended		
	12/31/18	12/31/17	12/31/16
Net income	\$ 974,175	\$ 876,660	\$ 1,033,708
Indirect operating expenses, net of corporate income	76,522	65,398	61,403
Investments and investment management expense	7,709	5,936	4,822
Expensed transaction, development and other pursuit costs, net of recoveries	4,309	2,736	9,922
Interest expense, net	220,974	199,661	187,510
Loss on extinguishment of debt, net	17,492	25,472	7,075
General and administrative expense	56,365	50,673	45,771
Equity in income of unconsolidated real estate entities	(15,270)	(70,744)	(64,962)
Depreciation expense	631,196	584,150	531,434
Income tax (benefit) expense	(160)	141	305
Casualty and impairment (gain) loss, net	215	6,250	(3,935)
Gain on sale of real estate assets	(374,976)	(252,599)	(374,623)
Gain on other real estate transactions, net	(345)	10,907	(10,224)
Net operating income from real estate assets sold or held for sale	(58,620)	(84,650)	(114,219)
Net operating income	\$ 1,539,586	\$ 1,419,991	\$ 1,313,987

The NOI increases for both 2018 and 2017, as compared to the prior years, consist of changes in the following categories (dollars in thousands):

	Full Year	
	2018	2017
Established Communities	\$ 26,248	\$ 61,143
Other Stabilized Communities	50,494	53,841
Development and Redevelopment Communities (1)	42,853	(8,980)
<b>Total</b>	<b>\$ 119,595</b>	<b>\$ 106,004</b>

(1) NOI for the years ended December 31, 2017 and 2016 include business interruption insurance proceeds of \$3,495 related to the Maplewood casualty loss and \$20,306 related to the Edgewater casualty loss, respectively.

The increase in our Established Communities' NOI in 2018 and 2017 is due to increased rental rates, partially offset by increased operating expenses.

*Rental and other income* increased in both 2018 and 2017 compared to the prior years due to additional rental income generated from newly developed, acquired and existing operating communities and an increase in rental rates at our Established Communities. The changes between years are also impacted by business interruption insurance proceeds received due to the final settlement of the Edgewater and Maplewood casualty losses, as described above.

**Consolidated Communities**—The weighted average number of occupied apartment homes for consolidated communities increased to 73,385 apartment homes for 2018, as compared to 70,081 homes for 2017 and 67,849 homes for 2016. The weighted average monthly rental revenue per occupied apartment home increased to \$2,588 for 2018 as compared to \$2,556 in 2017 and \$2,476 in 2016.

**Established Communities**—Rental revenue increased \$40,526,000, or 2.5%, to \$1,631,633,000 for 2018 from \$1,591,107,000 in the prior year. The increase is due to an increase in average rental rates of 2.5% to \$2,576 per apartment home and maintaining economic occupancy consistent at 96.1%. Rental revenue increased \$38,648,000, or 2.5%, for 2017, as compared to the prior year. Economic occupancy takes into account the fact that apartment homes of different sizes and locations within a community have different economic impacts on a community's gross revenue. Economic occupancy is defined as gross potential revenue less vacancy loss, as a percentage of gross potential revenue. Gross potential revenue is determined by valuing occupied homes at leased rates and vacant homes at market rents.

We experienced increases in rental revenue for all of our Established Communities' regions in 2018 as compared to the prior year, as discussed in more detail below.

The Northern California region accounted for 22.5% of the Established Community rental revenue for 2018 and experienced a rental revenue increase of 2.7% for 2018 over the prior year. Average rental rates increased 2.7% to \$2,936 per apartment home, and economic occupancy remained consistent at 96.4% for 2018 as compared to 2017. We believe improving income growth will support stronger rental revenue growth in Northern California in 2019.

The Metro New York/New Jersey region accounted for 22.1% of the Established Community rental revenue for 2018 and experienced a rental revenue increase of 1.7% for 2018 over the prior year. Average rental rates increased 1.8% to \$3,002 per apartment home, and were partially offset by a 0.1% decrease in economic occupancy to 96.2% for 2018 as compared to 2017. We expect operating conditions in the Metro New York/New Jersey region to improve modestly in 2019, driven primarily by a stronger income growth forecast than 2018.

The Southern California region accounted for 20.9% of the Established Community rental revenue for 2018 and experienced a rental revenue increase of 3.6% for 2018 over the prior year. Average rental rates increased 3.5% to \$2,300 per apartment home, and economic occupancy increased 0.1% to 96.1% for 2018 as compared to 2017. We believe relatively stable job and income growth in Southern California will continue to support favorable operating conditions in the region in 2019.

The New England region accounted for 14.7% of the Established Community rental revenue for 2018 and experienced a rental revenue increase of 3.0% for 2018 over the prior year. Average rental rates increased 2.9% to \$2,510 per apartment home, and economic occupancy increased 0.1% to 96.0% for 2018 as compared to 2017. We expect the operating environment in New England to improve in 2019, driven by strengthening income growth and a decrease in the volume of new apartment deliveries relative to 2018.

The Mid-Atlantic region accounted for 14.5% of the Established Community rental revenue for 2018 and experienced a rental revenue increase of 1.8% for 2018 over the prior year. Average rental rates increased 1.7% to \$2,218 per apartment home, and economic occupancy increased 0.1% to 96.0% for 2018 as compared to 2017. We believe elevated levels of new apartment deliveries in the Mid-Atlantic region will continue to limit our ability to increase rental rates in 2019.

The Pacific Northwest region accounted for 5.3% of the Established Community rental revenue for 2018 and experienced a rental revenue increase of 2.5% for 2018 over the prior year. Average rental rates increased 2.5% to \$2,301 per apartment home, and economic occupancy remained consistent at 96.0% for 2018 as compared to 2017. We expect operating conditions in the Pacific Northwest to remain relatively stable in 2019.

*Management, development and other fees* decreased \$575,000 or 13.9%, and \$1,452,000, or 25.9%, in 2018 and 2017, respectively, as compared to the prior years. The decreases in 2018 and 2017 were primarily due to lower property and asset management fees earned as a result of dispositions from Fund II, the U.S. Fund and the AC JV.

*Direct property operating expenses, excluding property taxes* increased \$12,704,000, or 3.0%, and \$21,874,000, or 5.4%, in 2018 and 2017, respectively, as compared to the prior years. The increases in 2018 and 2017 were primarily due to the addition of newly developed and acquired apartment communities.

For Established Communities, direct property operating expenses, excluding property taxes, increased \$5,993,000, or 2.0%, and \$6,067,000, or 2.0%, in 2018 and 2017, respectively, as compared to the prior years. The increase in 2018 was primarily due to increased compensation expense as well as maintenance and utilities costs, partially offset by decreased marketing and property insurance costs. The increase in 2017 was primarily due to increased compensation expense, bad debt and turnover and maintenance costs, partially offset by decreased property insurance costs.

*Property taxes* increased \$20,188,000, or 9.1%, and \$16,538,000, or 8.1%, in 2018 and 2017, respectively, as compared to the prior years. The increases in 2018 and 2017 were primarily due to the addition of newly developed and acquired apartment communities, increased assessments across our portfolio, as well as successful appeals in the prior years in excess of those recognized in the then current year.

For Established Communities, property taxes increased \$8,520,000, or 5.3%, and \$5,300,000, or 3.5%, in 2018 and 2017, respectively, as compared to the prior years. The increases in 2018 and 2017 were primarily due to increased assessments and rates in the current year periods, as well as successful appeals in the prior year periods in the Company's West Coast markets. For communities in California, property tax changes are determined by the change in the California Consumer Price Index, with increases limited by law (Proposition 13). We evaluate property tax increases internally and also engage third-party consultants to assist in our evaluations. We appeal property tax increases when appropriate.

*Corporate-level property management and other indirect operating expenses* increased \$10,574,000, or 15.2%, and \$2,521,000, or 3.8%, in 2018 and 2017, respectively, as compared to the prior year. The increase in 2018 was primarily due to advocacy contributions not present in the prior year, increased compensation related costs and spending on corporate initiatives in the current year. The increase in 2017 was primarily due to increased compensation related costs, partially offset by severance costs in 2016 not present in 2017.

*Investments and investment management expense* increased by \$1,773,000, or 29.9%, and \$1,114,000, or 23.1%, in 2018 and 2017, respectively, as compared to the prior years. The increase in 2018 was primarily due to severance costs, which were not present in the prior year, and an increase in compensation expense. The increase in 2017 was primarily due to an increase in compensation expense.

*Expensed acquisition, development and other pursuit costs, net of recoveries* primarily reflect abandoned pursuit costs as well as acquisition costs related to business acquisitions that occurred prior to the adoption of ASU 2017-01 as of October 1, 2016. Subsequent to the adoption of ASU 2017-01, we expect that acquisitions of individual operating communities will generally be viewed as asset acquisitions, and result in acquisition costs being capitalized instead of expensed. Abandoned pursuit costs include costs incurred for development pursuits not yet considered probable for development, as well as the abandonment of Development Rights and costs related to abandoned acquisition and disposition pursuits. These costs can be volatile, particularly in periods of increased acquisition pursuit activity, periods of economic downturn or when there is limited access to capital, and the costs may vary significantly from period to period. These aggregate costs increased \$1,573,000, or 57.5%, in 2018, and decreased \$7,186,000, or 72.4%, in 2017, as compared to the prior years. The increase in 2018 was primarily due to increased abandoned development pursuit costs and the non-cash write-off of asset management fee intangibles associated with the disposition of communities in the U.S. Fund and the AC JV. The decrease in 2017 was due to a decrease in acquisition costs related to communities acquired during the prior year periods that were expensed prior to the adoption of ASU 2017-01, decreased development pursuit costs, as well as the non-cash write-off of asset management fee intangibles associated with the disposition of communities in the U.S. Fund in the prior year period in excess of amounts recognized in the current year period.

*Interest expense, net* increased \$21,313,000, or 10.7%, and \$12,151,000, or 6.5%, in 2018 and 2017, respectively, as compared to the prior years. This category includes interest costs offset by capitalized interest pertaining to development and redevelopment activity, amortization of premium/discount on debt, and interest income. The increase in 2018 was primarily due to a decrease in amounts of interest capitalized resulting from a decrease in development and redevelopment activity, as well as an increase in outstanding unsecured indebtedness, partially offset by a decrease in secured indebtedness. The increase in 2017 was primarily due to a decrease in amounts of interest capitalized resulting from a decrease in development activity, as well as an increase in outstanding unsecured indebtedness.

*Loss on the extinguishment of debt, net* reflects prepayment penalties, the write-off of unamortized deferred financing costs and premiums from our debt repurchase and retirement activity, or payments to acquire our outstanding debt at amounts above or below the carrying basis of the debt acquired. The loss of \$17,492,000 for 2018 was due to:

- a prepayment penalty of \$8,579,000 and the non-cash write-off of deferred financing costs of \$347,000 associated with the early repayment of \$250,000,000 principal amount of 6.10% unsecured notes; and
- the aggregate prepayment penalty of \$3,308,000 and the non-cash write-off of deferred financing costs of \$5,258,000 on the repayment or refinancing of \$244,546,000 principal amount of mortgage notes secured by six wholly-owned operating communities.

The loss of \$25,472,000 for 2017 was primarily due to:

- prepayment penalties of \$33,515,000 and the non-cash write-off of deferred financing costs of \$1,450,000 associated with the repayment of \$556,313,000 aggregate principal amount of fixed rate mortgage notes secured by 12 wholly-owned operating communities in advance of their May 2019 maturity dates; partially offset by
- a gain of \$10,839,000, primarily composed of the write-off of unamortized premium on the repayment of \$670,590,000 principal amount of fixed rate mortgage notes secured by 11 wholly-owned operating communities in advance of their November 2017 maturity dates.

*Depreciation expense* increased \$47,046,000, or 8.1%, and \$52,716,000, or 9.9%, in 2018 and 2017, respectively, as compared to the prior years. The increases in 2018 and 2017 were primarily due to the addition of newly developed and acquired apartment communities.

*General and administrative expense* (“G&A”) increased \$5,692,000, or 11.2%, and \$4,902,000, or 10.7%, in 2018 and 2017, respectively, as compared to the prior years. The increase in 2018 was primarily due to an increase in compensation related expenses and a decrease in legal recoveries. The increase in 2017 was primarily due to an increase in compensation related expenses, professional fees, and sales and use tax expense.

*Casualty and impairment loss (gain), net* of \$215,000 for 2018 primarily consists of an impairment charge of \$826,000 recognized for a land parcel we had acquired for development and no longer intend to develop, partially offset by \$554,000 of legal settlement proceeds relating to construction defects at a community acquired as part of the Archstone Acquisition. The loss of \$6,250,000 for 2017 consists of a \$9,350,000 impairment charge recognized for a land parcel we had acquired for development in 2004 and sold in July 2017, and the net impact of the Maplewood casualty loss, net of associated insurance receivables, of \$2,338,000, partially offset by \$5,438,000 of legal settlement proceeds relating to construction defects at a community acquired as part of the Archstone Acquisition.

*Equity in income of unconsolidated real estate entities* decreased \$55,474,000, or 78.4%, and increased \$5,782,000, or 8.9%, in 2018 and 2017, respectively, as compared to the prior years. The decrease in 2018 was primarily due to gains on the sale of communities in various ventures and the recognition of income for the Company's promoted interest from Fund II in the prior year period, coupled with the resulting decreased NOI from the ventures in the current year period, due to disposition activity in 2017 and 2018. The increase in 2017 was primarily due to the recognition of income for the Company's promoted interest, partially offset by decreased gains on the sale of communities in various ventures in the current year, and decreased NOI from the ventures due to disposition activity in 2016 and 2017.

*Gain on sale of communities* increased in 2018 and decreased in 2017 as compared to the prior years. The amount of gain realized in a given period depends on many factors, including the number of communities sold, the size and carrying value of the communities sold and the market conditions in the local area. The gain of \$374,976,000 in 2018 was primarily due to the sale of eight wholly-owned operating communities and the recognition of the gain associated with the contribution of five wholly-owned operating communities to the NYC Joint Venture, a venture in which we retained a 20.0% interest. The gain of \$252,599,000 in 2017 was primarily due to the sale of six wholly-owned operating communities.

*Gain (loss) on other real estate transactions* of \$345,000 in 2018 was primarily composed of gains on ancillary real estate. The loss of \$10,907,000 in 2017 was primarily composed of the non-cash write-off of prepaid rent associated with the purchase of land previously subject to a ground lease.

#### Liquidity and Capital Resources

We employ a disciplined approach to our liquidity and capital management. When we source capital, we take into account both our view of the most cost effective alternative then available and our desire to maintain a balance sheet that provides us with flexibility. Our principal short-term liquidity needs are to fund:

- development and redevelopment activity in which we are currently engaged;
- the minimum dividend payments on our common stock required to maintain our REIT qualification under the Code;
- debt service and principal payments either at maturity or opportunistically before maturity; and
- normal recurring operating expenses and corporate overhead expenses.

Factors affecting our liquidity and capital resources are our cash flows from operations, financing activities and investing activities (including dispositions) as well as general economic and market conditions. Operating cash flow has historically been determined by: (i) the number of apartment homes currently owned, (ii) rental rates, (iii) occupancy levels and (iv) operating expenses with respect to apartment homes. The timing and type of capital markets activity in which we engage, as well as our plans for development, redevelopment, acquisition and disposition activity, are affected by changes in the capital markets environment, such as changes in interest rates or the availability of cost-effective capital. We regularly review our liquidity needs, the adequacy of cash flows from operations and other expected liquidity sources to meet these needs.

We had cash and cash equivalents and restricted cash of \$217,864,000 at December 31, 2018, an increase of \$15,958,000 from \$201,906,000 at December 31, 2017. The following discussion relates to changes in cash and cash equivalents and restricted cash due to operating, investing and financing activities, which are presented in our Consolidated Statements of Cash Flows included elsewhere in this report.

Operating Activities—Net cash provided by operating activities increased to \$1,301,111,000 in 2018 from \$1,256,257,000 in 2017. The change was driven primarily by increased NOI from existing, acquired and newly developed communities.

Investing Activities—Net cash used in investing activities totaled \$596,651,000 in 2018. The net cash used was primarily due to:

- investment of \$1,139,954,000 in the development and redevelopment of communities;
- acquisition of four operating communities for \$338,620,000; and

- capital expenditures of \$86,932,000 for our operating communities and non-real estate assets.

These amounts are partially offset by:

- proceeds from the sale of real estate, including the contribution of five communities to the NYC Joint Venture, of \$883,313,000; and
- net distributions from unconsolidated real estate entities of \$24,499,000.

Financing Activities—Net cash used in financing activities totaled \$688,502,000 in 2018. The net cash used was primarily due to:

- payment of cash dividends in the amount of \$805,239,000;
- the repayment of unsecured notes in the amount of \$258,579,000; and
- the repayment of secured notes in the amount of \$255,452,000.

These amounts are partially offset by:

- proceeds from the issuance of unsecured notes in the amount of \$299,442,000, less deferred financing costs of \$16,258,000;
- the issuance of secured notes in the amount of \$295,939,000; and
- the issuance of common stock in the amount of \$52,261,000, primarily through CEP IV.

#### *Variable Rate Unsecured Credit Facility*

We have a \$1,500,000,000 revolving variable rate unsecured credit facility with a syndicate of banks (the "Credit Facility") which matures in April 2020. We may extend the maturity for up to nine months, provided we are not in default and upon payment of a \$1,500,000 extension fee. The Credit Facility bears interest at varying levels based on the London Interbank Offered Rate ("LIBOR"), rating levels achieved on our unsecured notes and on a maturity schedule selected by us. The current stated pricing is LIBOR plus 0.825% per annum (3.34% at January 31, 2019 assuming a one month borrowing rate). The annual facility fee is 0.125% (or approximately \$1,875,000 annually based on the \$1,500,000,000 facility size and based on our current credit rating).

We had \$106,000,000 outstanding under the Credit Facility and had \$40,010,000 outstanding in letters of credit that reduced our borrowing capacity as of January 31, 2019.

#### *Financial Covenants*

We are subject to financial and other covenants contained in the Credit Facility, the Term Loan and the indenture under which our unsecured notes were issued. The principal financial covenants include the following:

- limitations on the amount of total and secured debt in relation to our overall capital structure;
- limitations on the amount of our unsecured debt relative to the undepreciated basis of real estate assets that are not encumbered by property-specific financing; and
- minimum levels of debt service coverage.

We were in compliance with these covenants at December 31, 2018.

In addition, our secured borrowings may include yield maintenance, defeasance, or prepayment penalty provisions, which would result in us incurring an additional charge in the event of a full or partial prepayment of outstanding principal before the scheduled maturity. These provisions in our secured borrowings are generally consistent with other similar types of debt instruments issued during the same time period in which our borrowings were secured.

#### *Continuous Equity Offering Program*

In December 2015, we commenced a fourth continuous equity program ("CEP IV") under which we may sell up to \$1,000,000,000 of our common stock from time to time. Actual sales will depend on a variety of factors to be determined, including market conditions, the trading price of our common stock and determinations of the appropriate sources of funding. In conjunction with CEP IV, we engaged sales agents who will receive compensation of up to 2.0% of the gross sales price for shares sold. CEP IV also allows us to enter into forward sale agreements up to \$1,000,000,000 in aggregate sales price of our common stock. We expect that we will physically settle each forward sale agreement on one or more dates prior to the maturity date of that particular forward sale agreement, in which case we will expect to receive aggregate net cash proceeds at settlement equal to the number of shares underlying the particular forward agreement multiplied by the relevant forward sale price. However, we may also elect to cash settle or net share settle a forward sale agreement. In connection with each forward sale agreement, we will pay the relevant forward seller, in the form of a reduced initial forward sale price, commission of up to 2.0% of the sales prices of all borrowed shares of common stock sold. In 2018, we sold 244,924 shares at an average sales price of \$189.14 per share, for net proceeds of \$45,629,000. As of January 31, 2019, we had \$846,591,000 of shares remaining authorized for issuance under this program and no forward sales agreements outstanding.

#### *Forward Interest Rate Swap Agreements*

In 2018, we entered into \$250,000,000 of forward interest rate swap agreements executed to reduce the impact of variability in interest rates on a portion of our expected debt issuance activity in 2019, which are outstanding as of December 31, 2018. At maturity of the outstanding swap agreements, we expect to cash settle the contracts and either pay or receive cash for the then current fair value. Assuming that we issue the debt as expected, the hedging impact from these positions will then be recognized over the life of the issued debt as a yield adjustment.

In conjunction with our March 2018 unsecured note issuance, we settled \$300,000,000 of forward interest rate swap agreements entered into in 2017 and designated as cash flow hedges of interest variability on the forecasted issuance of the unsecured notes, receiving a payment of \$12,598,000.

#### *Future Financing and Capital Needs—Debt Maturities*

One of our principal long-term liquidity needs is the repayment of long-term debt at maturity. For both our unsecured and secured notes, a portion of the principal of these notes may be repaid prior to maturity. Early retirement of our unsecured or secured notes could result in gains or losses on extinguishment. If we do not have funds on hand sufficient to repay our indebtedness as it becomes due, it will be necessary for us to refinance or otherwise provide liquidity to satisfy the debt at maturity. This refinancing may be accomplished by uncollateralized private or public debt offerings, equity issuances, additional debt financing that is secured by mortgages on individual communities or groups of communities or borrowings under our Credit Facility. Although we believe we will have the capacity to meet our currently anticipated liquidity needs, we cannot assure you that additional debt financing or debt or equity offerings will be available or, if available, that they will be on terms we consider satisfactory.

The following debt activity occurred during 2018:

- In February 2018, we repaid \$15,174,000 principal amount of 6.60% fixed rate debt secured by Avalon Oaks West in advance of its scheduled maturity date, incurring a charge of \$426,000, consisting of a prepayment penalty of \$152,000 and the non-cash write-off of unamortized deferred financing costs of \$274,000.
- In February 2018, we repaid \$11,038,000 principal amount of 4.61% fixed rate debt secured by AVA Pasadena at par in advance of its scheduled maturity date.
- In March 2018, we issued \$300,000,000 principal amount of unsecured notes in a public offering under our existing shelf registration statement for net proceeds of approximately \$296,210,000. The notes mature in April 2048 and were issued at a 4.35% interest rate. The effective interest rate of the notes for the first 10 years is 3.97%, including the impact of an interest rate hedge and offering costs, and for the remainder of the term the effective interest rate is 4.39%.
- In April 2018, we repaid \$13,380,000 principal amount of 3.06% fixed rate debt secured by Avalon Andover at par at its scheduled maturity date.
- In June 2018, we repaid \$15,295,000 principal amount of 6.90% fixed rate debt secured by Avalon Orchards in advance of its scheduled maturity date, incurring a charge of \$635,000, consisting of a prepayment penalty of \$282,000 and the non-cash write-off of unamortized deferred financing costs of \$353,000.

- In August 2018, we repaid \$95,859,000 aggregate principal amount of variable rate debt secured by Avalon Calabasas, of which \$51,449,000 was repaid at par at its scheduled maturity date, and \$44,410,000 was repaid at par in advance of its April 2028 maturity date. We recognized a non-cash charge of \$1,690,000 for the write-off of unamortized debt discount.
- In December 2018, we repaid \$250,000,000 principal amount of 6.10% unsecured notes in advance of its March 2020 scheduled maturity, recognizing a charge of \$8,926,000, consisting of a prepayment penalty of \$8,579,000 and a non-cash write-off of deferred financing costs of \$347,000.
- In December 2018, in conjunction with the formation of the NYC Joint Venture as discussed in Note 5, "Investments in Real Estate Entities" of our Consolidated Financial Statements, the following financing activities took place:
  - We repaid \$93,800,000 of variable rate debt secured by Avalon Bowery Place I in advance of its November 2037 maturity date. In conjunction with the repayment, we recognized a charge of \$5,837,000, consisting of a prepayment penalty of \$2,874,000 and the non-cash write-off of unamortized deferred financing costs of \$2,963,000.
  - We entered into a \$93,800,000 fixed rate note secured by Avalon Bowery Place I, with a contractual interest rate of 4.01%, maturing in January 2029.
  - We entered into a \$39,639,000 fixed rate note secured by Avalon Bowery Place II, with a contractual interest rate of 4.01%, maturing in January 2029.
  - We entered into a \$12,500,000 fixed rate note secured by Avalon Morningside Park, with a contractual interest rate of 3.95%, maturing in January 2029.
  - We entered into a \$150,000,000 fixed rate note secured by Avalon West Chelsea and AVA High Line, a dual-branded community, with contractual interest rate of 4.01%, maturing in January 2029.
  - The NYC Joint Venture then assumed the aggregate \$295,939,000 of new borrowings discussed above, as well as the previously outstanding \$100,000,000 fixed rate note secured by Avalon Morningside Park with a contractual interest rate of 3.50%.

The following table details our consolidated debt maturities for the next five years, excluding our Credit Facility and amounts outstanding related to communities classified as held for sale, for debt outstanding at December 31, 2018 and 2017 (dollars in thousands). We are not directly or indirectly (as borrower or guarantor) obligated in any material respect to pay principal or interest on the indebtedness of any unconsolidated entities in which we have an equity or other interest.

Community	All-In interest rate (1)	Principal maturity date	Balance Outstanding (2)		Scheduled Maturities						
			12/31/2017	12/31/2018	2019	2020	2021	2022	2023	Thereafter	
<b>Tax-exempt bonds</b>											
<i>Fixed rate</i>											
Avalon Oaks West	7.55%	Apr-2043 (3)	\$ 15,213	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Avalon at Chestnut Hill	6.16%	Oct-2047	38,097	37,561	566	596	629	663	699	34,408	
Avalon Westbury	3.86%	Nov-2036 (4)	62,200	62,200	—	—	—	—	—	62,200	
			115,510	99,761	566	596	629	663	699	96,608	
<i>Variable rate</i>											
Eaves Mission Viejo	2.58%	Jun-2025 (5)	7,635	7,635	—	—	—	—	—	7,635	
AVA Nob Hill	2.83%	Jun-2025 (5)	20,800	20,800	—	—	—	—	—	20,800	
Avalon Campbell	3.14%	Jun-2025 (5)	38,800	38,800	—	—	—	—	—	38,800	
Eaves Pacifica	3.18%	Jun-2025 (5)	17,600	17,600	—	—	—	—	—	17,600	
Avalon Bowery Place I	4.24%	Nov-2037 (6)	93,800	—	—	—	—	—	—	—	
Avalon Acton	2.74%	Jul-2040 (5)	45,000	45,000	—	—	—	—	—	45,000	
Avalon Morningside Park	3.36%	May-2046 (7)	100,000	—	—	—	—	—	—	—	
Avalon Clinton North	3.40%	Nov-2038 (5)	147,000	147,000	—	—	—	—	—	147,000	
Avalon Clinton South	3.40%	Nov-2038 (5)	121,500	121,500	—	—	—	—	—	121,500	
Avalon Midtown West	3.31%	May-2029 (5)	100,500	100,500	—	—	—	—	—	100,500	
Avalon San Bruno I	3.29%	Dec-2037 (5)	64,450	64,450	—	—	—	—	—	64,450	
Avalon Calabasas	2.68%	Apr-2028 (3)	44,410	—	—	—	—	—	—	—	
			801,495	563,285	—	—	—	—	—	563,285	
<b>Conventional loans</b>											
<i>Fixed rate</i>											
\$250 million unsecured notes	6.19%	Mar-2020 (3)	250,000	—	—	—	—	—	—	—	
\$250 million unsecured notes	4.04%	Jan-2021	250,000	250,000	—	—	250,000	—	—	—	
\$450 million unsecured notes	4.30%	Sep-2022	450,000	450,000	—	—	—	450,000	—	—	
\$250 million unsecured notes	3.00%	Mar-2023	250,000	250,000	—	—	—	—	250,000	—	
\$400 million unsecured notes	3.78%	Oct-2020	400,000	400,000	—	400,000	—	—	—	—	
\$350 million unsecured notes	4.30%	Dec-2023	350,000	350,000	—	—	—	—	350,000	—	
\$300 million unsecured notes	3.66%	Nov-2024	300,000	300,000	—	—	—	—	—	300,000	
\$525 million unsecured notes	3.55%	Jun-2025	525,000	525,000	—	—	—	—	—	525,000	
\$300 million unsecured notes	3.62%	Nov-2025	300,000	300,000	—	—	—	—	—	300,000	
\$475 million unsecured notes	3.35%	May-2026	475,000	475,000	—	—	—	—	—	475,000	
\$300 million unsecured notes	3.01%	Oct-2026	300,000	300,000	—	—	—	—	—	300,000	
\$350 million unsecured notes	3.95%	Oct-2046	350,000	350,000	—	—	—	—	—	350,000	
\$400 million unsecured notes	3.50%	May-2027	400,000	400,000	—	—	—	—	—	400,000	
\$300 million unsecured notes	4.09%	Jul-2047	300,000	300,000	—	—	—	—	—	300,000	
\$450 million unsecured notes	3.32%	Jan-2028	450,000	450,000	—	—	—	—	—	450,000	
\$300 million unsecured notes	3.97%	Apr-2048	—	300,000	—	—	—	—	—	300,000	
Avalon Orchards	7.80%	Jul-2033 (3)	15,579	—	—	—	—	—	—	—	
Avalon Walnut Creek	4.00%	Jul-2066	3,557	3,699	—	—	—	—	—	3,699	
AVA Pasadena	4.06%	Jun-2018 (3)	11,073	—	—	—	—	—	—	—	
Eaves Los Feliz	3.68%	Jun-2027	41,400	41,400	—	—	—	—	—	41,400	
Eaves Woodland Hills	3.67%	Jun-2027	111,500	111,500	—	—	—	—	—	111,500	
Avalon Russett	3.77%	Jun-2027	32,200	32,200	—	—	—	—	—	32,200	
Avalon San Bruno II	3.85%	Apr-2021	29,533	28,999	564	591	27,844	—	—	—	
Avalon Westbury	4.88%	Nov-2036 (4)	16,450	15,095	1,430	1,495	1,575	1,655	1,740	7,200	
Avalon San Bruno III	3.18%	Jun-2020	53,315	52,090	1,264	50,826	—	—	—	—	
Avalon Andover	3.28%	Apr-2018	13,498	—	—	—	—	—	—	—	
Avalon Natick	3.15%	Apr-2019	13,831	13,482	13,482	—	—	—	—	—	
Avalon Hoboken	3.55%	Dec-2020	67,904	67,904	—	67,904	—	—	—	—	
Avalon Columbia Pike	3.24%	Nov-2019	68,637	67,085	67,085	—	—	—	—	—	
			5,828,477	5,833,454	83,825	520,816	279,419	451,655	601,740	3,895,999	

Community	All-In interest rate (1)	Principal maturity date	Balance Outstanding (2)		Scheduled Maturities					
			12/31/2017	12/31/2018	2019	2020	2021	2022	2023	Thereafter
<i>Variable rate</i>										
Avalon Calabasas	2.40%	Aug-2018	52,092	—	—	—	—	—	—	—
Avalon Natick	4.51%	Apr-2019 (5)	35,039	34,155	34,155	—	—	—	—	—
Archstone Lexington	4.18%	Oct-2020	21,700	21,700	—	21,700	—	—	—	—
Term Loan - \$100 million	3.44%	Feb-2022	100,000	100,000	—	—	—	100,000	—	—
Term Loan - \$150 million	3.98%	Feb-2024	150,000	150,000	—	—	—	—	—	150,000
\$300 million unsecured notes	3.05%	Jan-2021	300,000	300,000	—	—	300,000	—	—	—
			658,831	605,855	34,155	21,700	300,000	100,000	—	150,000
Total indebtedness - excluding Credit Facility			\$ 7,404,313	\$ 7,102,355	\$118,546	\$543,112	\$580,048	\$552,318	\$ 602,439	\$ 4,705,892

- (1) Includes credit enhancement fees, facility fees, trustees' fees, the impact of interest rate hedges, offering costs, mark to market amortization and other fees.
- (2) Balances outstanding represent total amounts due at maturity, and exclude deferred financing costs and debt discount for the unsecured notes of \$44,007 and \$47,236 as of December 31, 2018 and 2017, respectively, deferred financing costs and debt discount associated with secured notes of \$18,085 and \$27,607 as of December 31, 2018 and 2017, respectively, as reflected on our Consolidated Balance Sheets included elsewhere in this report.
- (3) During 2018, we repaid this borrowing in advance of its scheduled maturity date.
- (4) Maturity date reflects the contractual maturity of the underlying bond. There is also an associated earlier credit enhancement maturity date.
- (5) Financed by variable rate debt, but interest rate is capped through an interest rate protection agreement.
- (6) During 2018, we refinanced this borrowing in advance of its scheduled maturity date and it was subsequently assumed by the NYC Joint Venture, in which we own a 20.0% interest, as discussed above.
- (7) During 2018, this borrowing was assumed by the NYC Joint Venture, in which we own a 20.0% interest, as discussed above.

#### Future Financing and Capital Needs—Portfolio and Capital Markets Activity

In 2019, we expect to meet our liquidity needs from a variety of internal and external sources, including (i) real estate dispositions, (ii) cash balances on hand as well as cash generated from our operating activities, (iii) borrowing capacity under our Credit Facility and (iv) secured and unsecured debt financings. Additional sources of liquidity in 2019 may include the issuance of common and preferred equity. Our ability to obtain additional financing will depend on a variety of factors such as market conditions, the general availability of credit, the overall availability of credit to the real estate industry, our credit ratings and credit capacity, as well as the perception of lenders regarding our long or short-term financial prospects.

Before beginning new construction or reconstruction activity, including activity related to communities owned by unconsolidated joint ventures, we intend to plan adequate financing to complete these undertakings, although we cannot assure you that we will be able to obtain such financing. In the event that financing cannot be obtained, we may have to abandon Development Rights, write off associated pre-development costs that were capitalized and/or forego reconstruction activity. In such instances, we will not realize the increased revenues and earnings that we expected from such Development Rights or reconstruction activity and significant losses could be incurred.

From time to time we use joint ventures to hold or develop individual real estate assets. We generally employ joint ventures primarily to mitigate asset concentration or market risk and secondarily as a source of liquidity. We may also use joint ventures related to mixed-use land development opportunities where our partners bring development and operational expertise to the venture. Each joint venture or partnership agreement has been individually negotiated, and our ability to operate and/or dispose of a community in our sole discretion may be limited to varying degrees depending on the terms of the joint venture or partnership agreement. We cannot assure you that we will achieve our objectives through joint ventures.

In evaluating our allocation of capital within our markets, we sell assets that do not meet our long-term investment criteria or when capital and real estate markets allow us to realize a portion of the value created over our ownership periods and redeploy the proceeds from those sales to develop and redevelop communities. Because the proceeds from the sale of communities may not be immediately redeployed into revenue generating assets that we develop, redevelop or acquire, the immediate effect of a sale of a community for a gain is to increase net income, but reduce future total revenues, total expenses and NOI until such time as the proceeds have been redeployed into revenue generating assets. We believe that the temporary absence of future cash flows from communities sold will not have a material impact on our ability to fund future liquidity and capital resource needs.

#### Unconsolidated Real Estate Investments and Off-Balance Sheet Arrangements

##### Unconsolidated Investments

During 2018, we contributed five wholly-owned operating communities located in New York, NY to a newly formed joint venture (the "NYC Joint Venture"), for net cash proceeds of \$276,799,000 and the assumption of \$395,939,000 of secured indebtedness by the venture, recognizing a gain on sale of \$179,861,000. We retained a 20.0% interest in the venture and are acting as the managing member of the venture as well as the property manager for the communities. The five communities contain an aggregate of 1,301 apartment homes and 58,000 square feet of retail space. In conjunction with the formation of the venture, we entered into the refinancing and borrowing activities discussed in "Liquidity and Capital Resources, Future Financing and Capital Needs—Debt Maturities" and the venture assumed all outstanding indebtedness.

The U.S. Fund has six institutional investors, including us. We are the general partner of the U.S. Fund and, excluding costs incurred in excess of our equity in the underlying net assets of the U.S. Fund, we have an equity investment of \$31,194,000 (net of distributions), representing a 28.6% combined equity interest. The U.S. Fund was formed in July 2011 and is fully invested. The U.S. Fund has a term that expires in July 2023, assuming the exercise of two, one-year extension options. During 2018, the U.S. Fund sold one community containing 131 apartment homes for a sales price of \$85,500,000. Our share of the gain was \$8,636,000. In conjunction with the disposition of this community, the U.S. Fund repaid \$27,928,000 of related secured indebtedness in advance of the scheduled maturity date.

The AC JV has four institutional investors, including us. Excluding costs incurred in excess of our equity in the underlying net assets of the AC JV, we have an equity investment of \$34,799,000 (net of distributions), representing a 20.0% equity interest. The AC JV was formed in 2011. During 2018, the AC JV sold one community containing 392 apartment homes for a sales price of \$94,250,000. Our proportionate share of the gain in accordance with GAAP was \$2,019,000. In conjunction with the disposition of this community, the AC JV repaid a \$50,647,000 loan to the equity investors in the venture at par.

During 2016, we entered into a joint venture to develop, own, and operate AVA North Point, an apartment community located in Cambridge, MA, which completed construction during 2018 and contains 265 apartment homes. We own a 55.0% interest in the venture, and the venture partner owns the remaining 45.0% interest. AVA North Point is the third phase of a master planned development, the other phases of which are owned through the AC JV. During 2016, we provided the partners of the AC JV the opportunity to acquire the AVA North Point land parcel we owned as required in the right of first offer ("ROFO") provisions for the AC JV. After certain partners of the AC JV declined to participate, we entered into the new joint venture and sold the land parcel to the venture in exchange for a cash payment and a capital account credit, and managed the development of AVA North Point in exchange for a developer fee. Upon sale of the land parcel, we recognized a gain of \$10,621,000. At December 31, 2018, excluding costs incurred in excess of our equity in the underlying net assets of AVA North Point, we have an equity investment of \$45,162,000.

During 2015, we entered into a joint venture agreement to purchase land and pursue entitlements and pre-development activity for a mixed-use development project in Sudbury, MA, including multifamily apartment homes, retail, senior housing and age-restricted housing. We have a 60.0% ownership interest in the venture. During 2017, we and our joint venture partner each acquired our respective portions of the real estate held by the venture, with our portion consisting of a parcel of land on which we are developing an apartment community, acquired for an investment of \$19,200,000. Along with our joint venture partner, we retained continuing involvement with the venture to fund the completion of the planned infrastructure and site work which is substantially complete as of December 31, 2018.

As part of the Archstone Acquisition we entered into a limited liability company agreement with Equity Residential, through which we assumed obligations of Archstone in the form of preferred interests, some of which are governed by tax protection arrangements (the "Legacy JV"). We have a 40.0% interest in the Legacy JV. During the years ended December 31, 2018, 2017 and 2016, the Legacy JV redeemed certain of the preferred interests and paid accrued dividends, of which our portion was \$1,120,000, \$2,000,000 and \$1,960,000, respectively. At December 31, 2018, the remaining preferred interests had an aggregate liquidation value of \$36,806,000, our 40.0% share of which was included in accrued expenses and other liabilities in the accompanying Consolidated Balance Sheets presented elsewhere in this report.

In conjunction with the Archstone Acquisition, through subsidiaries, we entered into three limited liability company agreements with Equity Residential (collectively, the “Residual JV”) through which we and Equity Residential acquired (i) certain assets of Archstone that we and Equity Residential have divested (the “Residual Assets”), and (ii) various liabilities of Archstone that we and Equity Residential agreed to assume (the “Residual Liabilities”). The Residual Assets included various licenses, insurance policies, contracts, office leases and other miscellaneous assets. The Residual Liabilities include most existing or future litigation and claims related to Archstone’s operations for periods before the close of the Archstone Acquisition, except for (i) claims that principally relate to the physical condition of the assets acquired directly by us or Equity Residential, which generally remain the sole responsibility of us or Equity Residential, as applicable, and (ii) certain tax and other litigation between Archstone and various equity holders in Archstone related to periods before the close of the Archstone Acquisition, and claims which may arise due to changes in the capital structure of Archstone that occurred prior to closing, for which the seller has agreed to indemnify us and Equity Residential. We jointly control the Residual JV with Equity Residential and we hold a 40.0% economic interest in the Residual JV. We believe our remaining potential obligations under the Residual JV will not have a material impact on our financial position or results of operations.

In addition, during 2018, we held an investment in, and received the final distributions for Fund II. Fund II was established to engage in a real estate acquisition program through a discretionary investment fund. We believe this investment format provides the following attributes: (i) third-party joint venture equity as an additional source of financing to expand and diversify our portfolio; (ii) additional sources of income in the form of property management and asset management fees and, potentially, incentive distributions if the performance exceeds certain thresholds; and (iii) additional visibility into the transactions occurring in multifamily assets that helps us with other investment decisions related to our wholly-owned portfolio.

Fund II had six institutional investors, including us. One of our wholly-owned subsidiaries was the general partner of Fund II and we had an equity interest of 31.3% combined general partner and limited partner equity interest. Upon achievement of a threshold return, we had a right to incentive distributions for our promoted interest which represented the first 40.0% of further Fund II distributions, which was in addition to our share of the remaining 60.0% of distributions. Fund II served as the exclusive vehicle for acquiring apartment communities from its formation in 2008 through the close of its investment period in August 2011. In 2017, Fund II sold its final apartment communities and we completed the dissolution of Fund II in 2018.

As of December 31, 2018, we had investments in the following unconsolidated real estate entities accounted for under the equity method of accounting. Refer to Note 5, “Investments in Real Estate Entities,” of the Consolidated Financial Statements included elsewhere in this report, which includes information on the aggregate assets, liabilities and equity, as well as operating results, and our proportionate share of their operating results. For ventures holding operating apartment communities as of December 31, 2018, detail of the real estate and associated funding underlying our unconsolidated investments is presented in the following table (dollars in thousands).

Unconsolidated Real Estate Investments	Company Ownership Percentage	# of Apartment Homes	Total Capitalized Cost (1)	Debt (2)			
				Principal Amount	Type	Interest Rate (3)	Maturity Date
<b>NYTA MF Investors LLC</b>							
1. Avalon Bowery Place I—New York, NY		206	\$ 208,270	\$ 93,800	Fixed	4.01%	Jan 2029
2. Avalon Bowery Place II—New York, NY		90	86,444	39,639	Fixed	4.01%	Jan 2029
3. Avalon Morningside—New York, NY (4)		295	211,143	112,500	Fixed	3.55%	Jan 2029/ May 2046
4. Avalon West Chelsea—New York, NY (5)		305	132,286	66,000	Fixed	4.01%	Jan 2029
5. AVA High Line—New York, NY (5)		405	127,489	84,000	Fixed	4.01%	Jan 2029
<b>Total NYTA MF Investors LLC</b>	<b>20.0%</b>	<b>1,301</b>	<b>765,632</b>	<b>395,939</b>		<b>3.88%</b>	
<b>U.S. Fund</b>							
1. Avalon Studio 4121—Studio City, CA		149	57,146	28,297	Fixed	3.34%	Nov 2022
2. Avalon Marina Bay—Marina del Rey, CA (6)		205	77,186	51,300	Fixed	1.56%	Dec 2020
3. Avalon Venice on Rose—Venice, CA		70	57,420	28,371	Fixed	3.28%	Jun 2020
4. Avalon Station 250—Dedham, MA		285	97,426	55,139	Fixed	3.73%	Sep 2022
5. Avalon Grosvenor Tower—Bethesda, MD		237	80,293	42,739	Fixed	3.74%	Sep 2022
<b>Total U.S. Fund</b>	<b>28.6%</b>	<b>946</b>	<b>369,471</b>	<b>205,846</b>		<b>3.08%</b>	
<b>AC JV</b>							
1. Avalon North Point—Cambridge, MA (7)		426	188,695	111,653	Fixed	6.00%	Aug 2021
2. Avalon North Point Lofts — Cambridge, MA		103	26,849	—	N/A	N/A	N/A
<b>Total AC JV</b>	<b>20.0%</b>	<b>529</b>	<b>215,544</b>	<b>111,653</b>		<b>6.00%</b>	
<b>North Point II JV, LP</b>							
1. AVA North Point—Cambridge, MA		265	106,023	—	N/A	N/A	N/A
<b>Total North Point II JV, LP</b>	<b>55.0%</b>	<b>265</b>	<b>106,023</b>	<b>\$ —</b>		<b>N/A</b>	
<b>Other Operating Joint Ventures</b>							
1. MVP I, LLC	25.0%	313	125,440	103,000	Fixed	3.24%	Jul 2025
2. Brandywine Apartments of Maryland, LLC	28.7%	305	19,638	22,195	Fixed	3.40%	Jun 2028
<b>Total Other Joint Ventures</b>		<b>618</b>	<b>145,078</b>	<b>125,195</b>		<b>3.27%</b>	
<b>Total Unconsolidated Investments</b>		<b>3,659</b>	<b>\$ 1,601,748</b>	<b>\$ 838,633</b>		<b>3.87%</b>	

- (1) Represents total capitalized cost as of December 31, 2018.
- (2) We have not guaranteed the debt of unconsolidated investees and bear no responsibility for the repayment.
- (3) Represents weighted average rate on outstanding debt as of December 31, 2018.
- (4) Borrowing on this community is comprised of two mortgage loans.
- (5) Borrowing on this dual-branded community is comprised of a single mortgage loan.
- (6) Borrowing on this community is a variable rate loan which has been converted to a fixed rate borrowing with an interest rate swap.
- (7) Borrowing is comprised of a loan made by the equity investors in the venture in proportion to their equity interests.

#### Off-Balance Sheet Arrangements

In addition to our investment interests in consolidated and unconsolidated real estate entities, we have certain off-balance sheet arrangements with the entities in which we invest. Additional discussion of these entities can be found in Note 5, “Investments in Real Estate Entities,” of our Consolidated Financial Statements included elsewhere in this report.

We have not guaranteed the debt of our unconsolidated real estate entities, as referenced in the table above, nor do we have any obligation to fund this debt should the unconsolidated real estate entities be unable to do so. In the future, in the event the unconsolidated real estate entities were unable to meet their obligations under a loan, we cannot predict at this time whether we would provide any voluntary support, or take any other action, as any such action would depend on a variety of factors, including the amount of support required and the possibility that such support could enhance the return of the unconsolidated real estate entities and/or our returns by providing time for performance to improve.

There are no other material lines of credit, side agreements, financial guarantees or any other derivative financial instruments related to or between our unconsolidated real estate entities and us. In evaluating our capital structure and overall leverage, management takes into consideration our proportionate share of the indebtedness of unconsolidated entities in which we have an interest.

#### Contractual Obligations

Scheduled contractual obligations required for the next five years and thereafter are as follows as of December 31, 2018 (dollars in thousands):

	Payments due by period				
	Total	Less than 1 Year	1-3 Years	3-5 Years	More than 5 Years
Debt Obligations	\$ 7,102,355	\$ 118,546	\$ 1,123,160	\$ 1,154,757	\$ 4,705,892
Interest on Debt Obligations (1)	2,578,835	257,366	465,374	386,854	1,469,241
Operating Lease Obligations (2)	504,865	14,166	25,062	25,656	439,981
Capital Lease Obligations (2)(3)	46,618	1,075	2,157	2,166	41,220
	<u>\$ 10,232,673</u>	<u>\$ 391,153</u>	<u>\$ 1,615,753</u>	<u>\$ 1,569,433</u>	<u>\$ 6,656,334</u>

- (1) Interest payments on variable rate debt obligations are calculated based on the rate as of December 31, 2018.
- (2) Includes land leases expiring between October 2026 and March 2142. Amounts do not include any adjustment for purchase options available under the land leases.
- (3) Aggregate capital lease payments include \$26,375 in interest costs.

#### Inflation and Deflation

Substantially all of our apartment leases are for a term of one year or less. In an inflationary environment, this may allow us to realize increased rents upon renewal of existing leases or the beginning of new leases. Short-term leases generally minimize our risk from the adverse effect of inflation, although these leases generally permit residents to leave at the end of the lease term and therefore expose us to the effect of a decline in market rents. Similarly, in a deflationary rent environment, we may be exposed to declining rents more quickly under these shorter-term leases.

#### Recent U.S. Federal Income Tax Updates

This summary is for general information purposes only and is not tax advice. This discussion does not address all aspects of taxation that may be relevant to particular holders of our securities in light of their personal investment or tax circumstances.

The following discussion supplements and updates the disclosures under “Federal Income Tax Considerations and Consequences of Your Investment” in the prospectus dated February 23, 2018 contained in our Registration Statement on Form S-3 filed with the SEC on February 23, 2018.

#### Consolidated Appropriations Act Updates

On March 23, 2018, the Consolidated Appropriations Act, 2018 (the “CAA”) was enacted. The CAA amended various provisions of the Code and implicate certain tax-related disclosures contained in the prospectus. As a result, the discussion under “Federal Income Tax Considerations and Consequences of Your Investment-U.S. Taxation of Non-U.S. Stockholders-Special FIRPTA Rules” of the prospectus is replaced with the following paragraphs:

*Special FIRPTA Rules.* To the extent our stock is held directly (or indirectly through one or more partnerships) by a “qualified shareholder,” it will not be treated as a U.S. real property interest for such qualified shareholder. Further, to the extent such treatment applies, any distribution to such shareholder will not be treated as gain recognized from the sale or exchange of a U.S. real property interest. For these purposes, a qualified shareholder is generally a non-U.S. stockholder that (i)(A) is eligible for treaty benefits under an income tax treaty with the United States that includes an exchange of information program, and the principal class of interests of which is listed and regularly traded on one or more stock exchanges as defined by the treaty, or (B) is a foreign limited partnership organized in a jurisdiction with an exchange of information agreement with the United States and that has a class of regularly traded limited partnership units (having a value greater than 50% of the value of all partnership units) on the New York Stock Exchange or Nasdaq, (ii) is a “qualified collective investment vehicle” (within the meaning of Section 897(k)(3)(B) of the Code) and (iii) maintains records of persons holding 5% or more of the class of interests described in clauses (i)(A) or (i)(B) above. However, in the case of a qualified shareholder having one or more “applicable investors,” the exception described in the first sentence of this paragraph will not apply to the applicable percentage of the qualified shareholder's stock (with “applicable percentage” generally meaning the percentage of the value of the interests in the qualified shareholder held by applicable investors after applying certain constructive ownership rules). The applicable percentage of the amount realized by a qualified shareholder on the disposition of our stock or with respect to a distribution from us attributable to gain from the sale or exchange of a U.S. real property interest will be treated as amounts realized from the disposition of U.S. real property interest. Such treatment shall also apply to applicable investors in respect of distributions treated as a sale or exchange of stock with respect to a qualified shareholder. For these purposes, an “applicable investor” is a person (other than a qualified shareholder) who generally holds an interest in the qualified shareholder and holds more than 10% of our stock applying certain constructive ownership rules.

For FIRPTA purposes, a “qualified foreign pension fund” shall not be treated as a non-U.S. stockholder, and any entity all of the interests of which are held by an qualified foreign pension fund shall be treated as such a fund. A “qualified foreign pension fund” is an organization or arrangement (i) created or organized in a foreign country, (ii) established to provide retirement or pension benefits to current or former employees (including self-employed individuals) or their designees by either (A) a foreign country as a result of services rendered by such employees to their employers, or (B) one or more employers in consideration for services rendered by such employees to such employers, (iii) which does not have a single participant or beneficiary that has a right to more than 5% of its assets or income, (iv) which is subject to government regulation and with respect to which annual information about its beneficiaries is provided, or is otherwise available, to relevant local tax authorities and (v) with respect to which, under its local laws, (A) contributions that would otherwise be subject to tax are deductible or excluded from its gross income or taxed at a reduced rate, or (B) taxation of its investment income is deferred, or such income is excluded from its gross income or taxed at a reduced rate.

In addition, the CAA clarified that for purposes of determining if a REIT is a “domestically controlled qualified investment entity” under FIRPTA, the presumption that generally a person holding less than 5% of a REIT’s class of stock that is regularly traded on an established securities market in the United States for five years has been, and will be, treated as a U.S. person applies for testing periods ending on or after December 18, 2015 (e.g., if a testing period ends on June 1, 2018, then the presumption applies for the entire five-year period starting on June 1, 2013).

The CAA also amended numerous Code provisions relating to the new rules applicable to federal income tax audits of partnerships effective for taxable years beginning after December 31, 2017 to provide that a broader range of partnership-related items may be adjusted on audit or in other tax proceedings.

#### Recent FATCA Regulations

On December 18, 2018, the Internal Revenue Service promulgated proposed Treasury Regulations under Sections 1471-1474 of the Code (commonly referred to as FATCA), which proposed regulations eliminate FATCA withholding on gross proceeds of a disposition of property that can produce U.S. source interest or dividends and thus implicate certain tax-related disclosures contained in the prospectus. While these proposed Treasury Regulations have not yet been finalized, taxpayers are generally entitled to rely on the proposed Treasury Regulations (subject to certain limited exceptions). As a result, the following revisions are made to the prospectus:

- In the first sentence of the fourth paragraph under “Federal Income Tax Considerations and Consequences of Your Investment - Taxation of Non-U.S. Holders of Debt Securities - Disposition of the Debt Securities,” of the prospectus, the phrase “subject to the discussion below regarding FATCA withholding” is deleted; and



- The paragraph under “Federal Income Tax Considerations and Consequences of Your Investment - Other Tax Consequences for Avalon Bay, its Stockholders, and Holders of its Debt Securities - Other U.S. Federal Income Tax Withholding and Reporting Requirements; FATCA” of the prospectus is replaced with the following:

*Other U.S. Federal Income Tax Withholding and Reporting Requirements; FATCA.* The FATCA provisions of the Code, subject to administrative guidance and certain intergovernmental agreements entered into thereunder, impose a 30% withholding tax on certain types of payments made to “foreign financial institutions” and certain other non-U.S. entities unless (i) the foreign financial institution undertakes certain diligence and reporting obligations or (ii) the foreign non-financial entity either certifies it does not have any substantial United States owners or furnishes identifying information regarding each substantial United States owner. If the payee is a foreign financial institution that is not subject to special treatment under certain intergovernmental agreements, it must enter into an agreement with the United States Treasury Department requiring, among other things, that it undertakes to identify accounts held by certain United States persons or United States-owned foreign entities, annually report certain information about such accounts, and withhold 30% on payments to account holders whose actions prevent them from complying with these reporting and other requirements. Investors in jurisdictions that have entered into “intergovernmental agreements” may, in lieu of the foregoing requirements, be required to report such information to their home jurisdictions. The compliance requirements under FATCA are complex and special requirements may apply to certain categories of payees.

#### *Clarification*

Finally, the discussion under “Federal Income Tax Considerations and Consequences of Your Investment-U.S. Taxation of Non-U.S. Stockholders-Distributions by AvalonBay” of the prospectus is clarified to explain that the exception to FIPRTA for 10% or smaller holders may apply only if our common stock is regularly traded an established securities market located in the United States.

#### Forward-Looking Statements

This Form 10-K contains “forward-looking statements” as that term is defined under the Private Securities Litigation Reform Act of 1995. You can identify forward-looking statements by our use of the words “believe,” “expect,” “anticipate,” “intend,” “estimate,” “assume,” “project,” “plan,” “may,” “shall,” “will” and other similar expressions in this Form 10-K, that predict or indicate future events and trends and that do not report historical matters. These statements include, among other things, statements regarding our intent, belief or expectations with respect to:

- our potential development, redevelopment, acquisition or disposition of communities;
- the timing and cost of completion of apartment communities under construction, reconstruction, development or redevelopment;
- the timing of lease-up, occupancy and stabilization of apartment communities;
- the pursuit of land on which we are considering future development;
- the anticipated operating performance of our communities;
- cost, yield, revenue, NOI and earnings estimates;
- our declaration or payment of dividends;
- our joint venture and discretionary fund activities;
- our policies regarding investments, indebtedness, acquisitions, dispositions, financings and other matters;
- our qualification as a REIT under the Internal Revenue Code;
- the real estate markets in Northern and Southern California, Denver, Colorado, and Southeast Florida, and markets in selected states in the Mid-Atlantic, New England, Metro New York/New Jersey and Pacific Northwest regions of the United States and in general;
- the availability of debt and equity financing;
- interest rates;
- general economic conditions including the potential impacts from current economic conditions;
- trends affecting our financial condition or results of operations; and
- the impact of outstanding legal proceedings.

We cannot assure the future results or outcome of the matters described in these statements; rather, these statements merely reflect our current expectations of the approximate outcomes of the matters discussed. We do not undertake a duty to update these forward-looking statements, and therefore they may not represent our estimates and assumptions after the date of this report. You should not rely on forward-looking statements because they involve known and unknown risks, uncertainties and other factors, some of which are beyond our control. These risks, uncertainties and other factors may cause our actual results, performance or achievements

to differ materially from the anticipated future results, performance or achievements expressed or implied by these forward-looking statements. You should carefully review the discussion under Item 1A. “Risk Factors” in this report for further discussion of risks associated with forward-looking statements.

Some of the factors that could cause our actual results, performance or achievements to differ materially from those expressed or implied by these forward-looking statements include, but are not limited to, the following:

- we may fail to secure development opportunities due to an inability to reach agreements with third parties to obtain land at attractive prices or to obtain desired zoning and other local approvals;
- we may abandon or defer development opportunities for a number of reasons, including changes in local market conditions which make development less desirable, increases in costs of development, increases in the cost of capital or lack of capital availability, resulting in losses;
- construction costs of a community may exceed our original estimates;
- we may not complete construction and lease-up of communities under development or redevelopment on schedule, resulting in increased interest costs and construction costs and a decrease in our expected rental revenues;
- occupancy rates and market rents may be adversely affected by competition and local economic and market conditions which are beyond our control;
- financing may not be available on favorable terms or at all, and our cash flows from operations and access to cost effective capital may be insufficient for the development of our pipeline which could limit our pursuit of opportunities;
- our cash flows may be insufficient to meet required payments of principal and interest, and we may be unable to refinance existing indebtedness or the terms of such refinancing may not be as favorable as the terms of existing indebtedness;
- we may be unsuccessful in our management of the U.S. Fund, the AC JV or the REIT vehicles that are used with each respective joint venture;
- we may be unsuccessful in managing changes in our portfolio composition; and
- our expectations, estimates and assumptions regarding outstanding legal proceedings are subject to change.

#### Critical Accounting Policies

The preparation of financial statements in conformity with GAAP requires management to use judgment in the application of accounting policies, including making estimates and assumptions. If our judgment or interpretation of the facts and circumstances relating to various transactions had been different, or different assumptions were made, it is possible that different accounting policies would have been applied, resulting in different financial results or a different presentation of our financial statements. Below is a discussion of the accounting policies that we consider critical to an understanding of our financial condition and operating results that may require complex or significant judgment in their application or require estimates about matters which are inherently uncertain. A discussion of our significant accounting policies, including further discussion of the accounting policies described below, can be found in Note 1, “Organization, Basis of Presentation and Significant Accounting Policies,” of our Consolidated Financial Statements.

#### *Principles of Consolidation*

We may enter into various joint venture agreements with unrelated third parties to hold or develop real estate assets. We must determine for each of these ventures whether to consolidate the entity or account for our investment under the equity or cost basis of accounting.

We determine whether to consolidate certain entities based on our rights and obligations under the joint venture agreements, applying the applicable accounting guidance. For investment interests that we do not consolidate, we evaluate the guidance to determine the accounting framework to apply. The application of the rules in evaluating the accounting treatment for each joint venture is complex and requires substantial management judgment. Therefore, we believe the decision to choose an appropriate accounting framework is a critical accounting estimate.

If we were to consolidate the joint ventures that we accounted for using the equity method at December 31, 2018, our assets would have increased by \$1,247,749,000 and our liabilities would have increased by \$741,282,000. We would be required to consolidate those joint ventures currently not consolidated for financial reporting purposes if the facts and circumstances changed, including but not limited to the following reasons, none of which are currently expected to occur:

- For entities not considered to be variable interest entities, the nature of the entity changed such that it would be considered a variable interest entity and we were considered the primary beneficiary.

- For entities in which we do not hold a controlling voting and/or variable interest, the contractual arrangement changed resulting in our investment interest being either a controlling voting and/or variable interest.

We evaluate our accounting for investments on a regular basis including when a significant change in the design of an entity occurs.

#### *Cost Capitalization*

We capitalize costs during the development of assets. Capitalization begins when we determine that development of a future asset is probable and continues until the asset, or a portion of the asset, is delivered and is ready for its intended use. For redevelopment efforts, we capitalize costs either (i) in advance of taking apartment homes out of service when significant renovation of the common area has begun and continue until the redevelopment is completed, or (ii) when an apartment home is taken out of service for redevelopment and continue until the redevelopment is completed and the apartment home is available for a new resident. Rental income and operating expenses incurred during the initial lease-up or post-redevelopment lease-up period are fully recognized in earnings as they accrue.

During the development and redevelopment efforts we capitalize all direct costs and indirect costs which have been incurred as a result of the development and redevelopment activities. These costs include interest and related loan fees, property taxes as well as other direct and indirect costs. Interest is capitalized for any project-specific financing, as well as for general corporate financing to the extent of our aggregate investment in the projects. Indirect project costs, which include personnel and office and administrative costs that are clearly associated with our development and redevelopment efforts, are also capitalized. Capitalized indirect costs associated with our development and redevelopment activities are comprised primarily of compensation related costs for associates dedicated to our development and redevelopment efforts and total \$46,857,000, \$47,063,000 and \$45,201,000 for 2018, 2017 and 2016, respectively. The estimation of the direct and indirect costs to capitalize as part of our development and redevelopment activities requires judgment and, as such, we believe cost capitalization to be a critical accounting estimate.

There may be a change in our operating expenses in the event that there are changes in accounting guidance governing capitalization or changes to our levels of development or redevelopment activity. If changes in the accounting guidance limit our ability to capitalize costs or if we reduce our development and redevelopment activities without a corresponding decrease in indirect project costs, there may be an increase in our operating expenses.

We capitalize pre-development costs incurred in pursuit of Development Rights. These costs include legal fees, design fees and related overhead costs. Future development of these pursuits is dependent upon various factors, including zoning and regulatory approval, rental market conditions, construction costs and availability of capital. Pre-development costs incurred for pursuits for which future development is not yet considered probable are expensed as incurred. In addition, if the status of a Development Right changes, making future development no longer probable, any capitalized pre-development costs are written off with a charge to expense.

Due to the subjectivity in determining whether a pursuit will result in the development of an apartment community, and therefore should be capitalized, the accounting for pursuit costs is a critical accounting estimate. As of December 31, 2018, capitalized pursuit costs associated with Development Rights totaled \$47,443,000.

#### *Abandoned Pursuit Costs & Asset Impairment*

We evaluate our real estate and other long-lived assets for impairment when potential indicators of impairment exist. If events or circumstances indicate that the carrying amount of a property may not be recoverable, we assess its recoverability by comparing the carrying amount of the property to its estimated undiscounted future cash flows. If the carrying amount exceeds the aggregate undiscounted future cash flows, we recognize an impairment loss to the extent the carrying amount exceeds the estimated fair value of the property. We assess land held for development for impairment if our intent changes with respect to the development of the land. We evaluate our unconsolidated investments for impairment, considering both the carrying value of the investment, estimated to be the expected proceeds that it would receive if the entity were dissolved and the net assets were liquidated, as well as our proportionate share of any impairment of assets held by unconsolidated investments.

We expense costs related to abandoned pursuits, which include the abandonment of Development Rights and disposition pursuits. These costs can vary greatly, and the costs incurred in any given period may be significantly different in future years.

Our focus on value creation through real estate development presents an impairment risk in the event of a future deterioration of the real estate and/or capital markets or a decision by us to reduce or cease development. We cannot predict the occurrence of future events that may cause an impairment assessment to be performed, or the likelihood of any future impairment charges, if any. You should also review Item 1A. "Risk Factors" in this Form 10-K.

#### *REIT Status*

We are a Maryland corporation that has elected to be treated, for U.S. federal income tax purposes, as a REIT. We elected to be taxed as a REIT under the Code for the year ended December 31, 1994 and have not revoked such election. A REIT is a corporate entity which holds real estate interests and must meet a number of organizational and operational requirements, including a requirement that it currently distribute at least 90% of its adjusted taxable income to stockholders. As a REIT, we generally will not be subject to corporate level federal income tax on our taxable income if we annually distribute 100% of our taxable income to our stockholders. If we fail to qualify as a REIT in any taxable year, we will be subject to regular federal and state corporate income taxes and may not be able to elect to qualify as a REIT for four subsequent taxable years. For example, if we failed to qualify as a REIT in 2018, our net income would have decreased by approximately \$266,240,000.

Our qualification as a REIT requires management to exercise significant judgment and consideration with respect to operational matters and accounting treatment. Therefore, we believe our REIT status is a critical accounting estimate.

#### *Acquisition of Investments in Real Estate*

We assess each acquisition of an operating community to determine if it meets the definition of a business or if it qualifies as an asset acquisition. We expect that acquisitions of individual operating communities will generally be viewed as asset acquisitions, and result in the capitalization of acquisition costs, and the allocation of purchase price to the assets acquired and liabilities assumed based on the relative fair value of the respective assets and liabilities.

## ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

We are exposed to market risks from our financial instruments primarily from changes in market interest rates. We do not have exposure to any other significant market risk. We monitor interest rate risk as an integral part of our overall risk management, which recognizes the unpredictability of financial markets and seeks to reduce the potentially adverse effect on our results of operations. Our operating results are affected by changes in interest rates, primarily in short-term LIBOR and the SIFMA index as a result of borrowings under our Credit Facility and outstanding bonds and unsecured notes with variable interest rates. In addition, the fair value of our fixed rate unsecured and secured notes are impacted by changes in market interest rates. The effect of interest rate fluctuations on our results of operations historically has been small relative to other factors affecting operating results, such as rental rates and occupancy.

We currently use interest rate protection agreements (consisting of interest rate swap and interest rate cap agreements) for our risk management objectives, as well as for compliance with the requirements of certain lenders, and not for trading or speculative purposes. During 2018, we entered into \$250,000,000 of forward interest rate swap agreements to reduce the impact of variability in interest rates on a portion of our expected debt issuance activity in 2019. During 2018, we settled an aggregate of \$300,000,000 of forward interest rate swap agreements entered into in 2017 in conjunction with the March 2018 unsecured note issuance. In addition, we have interest rate caps that serve to effectively limit the amount of interest rate expense we would incur on a floating rate borrowing. Further discussion of the financial instruments impacted and our exposure is presented below.

As of December 31, 2018 and 2017, we had \$1,169,140,000 and \$1,460,326,000, respectively, in variable rate debt outstanding, with no amounts outstanding under our Credit Facility. If interest rates on the variable rate debt had been 100 basis points higher throughout 2018 and 2017, our annual interest incurred would have increased by approximately \$14,963,000 and \$14,867,000, respectively, based on balances outstanding during the applicable years.

Because the counterparties providing the interest rate cap and swap agreements are major financial institutions which have an A or better credit rating by the Standard & Poor's Ratings Group, we do not believe there is exposure at this time to a default by a counterparty provider.

In addition, changes in interest rates affect the fair value of our fixed rate debt, computed using quoted market prices for our unsecured notes or a discounted cash flow model for our secured notes, considering our current market yields, which impacts the fair value of our aggregate indebtedness. Debt securities and notes payable (including amounts outstanding under our Credit Facility) with an aggregate principal amount outstanding of \$7,102,355,000 at December 31, 2018 had an estimated aggregate fair value of \$6,774,153,000 at December 31, 2018. Contractual fixed rate debt represented \$5,779,167,000 of the fair value at December 31, 2018. If interest rates had been 100 basis points higher as of December 31, 2018, the fair value of this fixed rate debt would have decreased by approximately \$240,633,000.

## ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

The response to this Item 8 is included as a separate section of this Annual Report on Form 10-K.

## ITEM 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE

None.

## ITEM 9A. CONTROLS AND PROCEDURES

- (a) Evaluation of Disclosure Controls and Procedures. As required by Rule 13a-15 under the Securities Exchange Act of 1934, as of the end of the period covered by this report, the Company carried out an evaluation under the supervision and with the participation of the Company's management, including the Company's Chief Executive Officer and Chief Financial Officer, of the effectiveness of the design and operation of the Company's disclosure controls and procedures. Based upon that evaluation, the Chief Executive Officer and Chief Financial Officer concluded that the Company's disclosure controls and procedures are effective to ensure that information required to be disclosed by the Company in the reports it files or submits under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the Securities and Exchange Commission's rules and forms. We continue to review and document our disclosure controls and procedures, including our internal controls and procedures for financial reporting, and may from time to time make changes aimed at enhancing their effectiveness and to ensure that our systems evolve with our business.

- (b) Management's Report on Internal Control Over Financial Reporting. Our management is responsible for establishing and maintaining adequate internal control over financial reporting, as such term is defined in Exchange Act Rules 13a-15(f) and 15d-15(f). Under the supervision and with the participation of our management, including our Chief Executive Officer and Chief Financial Officer, we conducted an evaluation of the effectiveness of our internal control over financial reporting as of December 31, 2018 based on the framework in Internal Control-Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). Based on that evaluation, our management concluded that our internal control over financial reporting was effective as of December 31, 2018.

Our internal control over financial reporting as of December 31, 2018 has been audited by Ernst & Young LLP, an independent registered public accounting firm, as stated in their report which is included elsewhere herein.

- (c) Changes in Internal Control Over Financial Reporting. As of January 1, 2018, the Company adopted ASU 2014-09, Revenue from Contracts with Customers. The Company implemented internal controls related to the revenue recognition process, but there were no significant changes to the internal control over financial reporting due to the adoption of this new standard.

## ITEM 9B. OTHER INFORMATION

None.

**PART III**

**ITEM 10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE**

The information required by Item 10 pertaining to directors and executive officers of the Company and the Company's Code of Conduct is incorporated herein by reference to the Company's Proxy Statement to be filed with the Securities and Exchange Commission within 120 days after the end of the year covered by this Form 10-K with respect to the Annual Meeting of Stockholders scheduled to be held on May 16, 2019.

**ITEM 11. EXECUTIVE COMPENSATION**

The information required by Item 11 pertaining to executive compensation is incorporated herein by reference to the Company's Proxy Statement to be filed with the Securities and Exchange Commission within 120 days after the end of the year covered by this Form 10-K with respect to the Annual Meeting of Stockholders scheduled to be held on May 16, 2019.

**ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS**

The information required by Item 12 pertaining to security ownership of management and certain beneficial owners of the Company's common stock is incorporated herein by reference to the Company's Proxy Statement to be filed with the Securities and Exchange Commission within 120 days after the end of the year covered by this Form 10-K with respect to the Annual Meeting of Stockholders scheduled to be held on May 16, 2019, to the extent not set forth below.

The Company maintains the Second Amended and Restated 2009 Equity Incentive Plan (the "2009 Plan") and the 1996 Non-Qualified Employee Stock Purchase Plan (the "ESPP"), pursuant to which common stock or other equity awards may be issued or granted to eligible persons.

The following table gives information about equity awards under the 2009 Plan, the Company's prior 1994 Stock Option and Incentive Plan (the "1994 Plan") under which awards were previously made, and the ESPP as of December 31, 2018:

Plan category	(a) Number of securities to be issued upon exercise of outstanding options, warrants and rights	(b) Weighted-average exercise price of outstanding options, warrants and rights	(c) Number of securities remaining available for future issuance under equity compensation plans (excluding securities reflected in column (a))
Equity compensation plans approved by security holders (1)	686,676 (2)	\$ 128.84 (3)	7,509,205
Equity compensation plans not approved by security holders (4)	—	N/A	668,329
<b>Total</b>	<b>686,676</b>	<b>\$ 128.84 (3)</b>	<b>8,177,534</b>

(1) Consists of the 2009 Plan and the 1994 Plan.

(2) Includes 28,206 deferred restricted stock units granted under the 2009 Plan and the 1994 Plan, which, subject to vesting requirements, will convert in the future to common stock on a one-for-one basis. Also includes the maximum number of shares that may be issued upon settlement of outstanding Performance Awards awarded to officers and maturing on December 31, 2018, 2019 and 2020. Does not include 369,649 shares of restricted stock that are outstanding and that are already reflected in the Company's outstanding shares.

(3) Excludes performance awards and deferred units granted under the 2009 Plan and the 1994 Plan, which, subject to vesting requirements, will convert in the future to common stock on a one-for-one basis.

(4) Consists of the ESPP.

The ESPP, which was adopted by the Board of Directors on October 29, 1996, has not been approved by our shareholders. A further description of the ESPP appears in Note 9, "Stock-Based Compensation Plans," of the Consolidated Financial Statements set forth in Item 8 of this report.

**ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS, AND DIRECTOR INDEPENDENCE**

The information required by Item 13 pertaining to certain relationships and related transactions is incorporated herein by reference to the Company's Proxy Statement to be filed with the Securities and Exchange Commission within 120 days after the end of the year covered by this Form 10-K with respect to the Annual Meeting of Stockholders to be held on May 16, 2019.

**ITEM 14. PRINCIPAL ACCOUNTANT FEES AND SERVICES**

The information required by Item 14 pertaining to the fees paid to and services provided by the Company's principal accountant is incorporated herein by reference to the Company's Proxy Statement to be filed with the Securities and Exchange Commission within 120 days after the end of the year covered by this Form 10-K with respect to the Annual Meeting of Stockholders to be held on May 16, 2019.

## PART IV

## INDEX TO EXHIBITS

## ITEM 15. EXHIBITS, FINANCIAL STATEMENT SCHEDULE

	<u>Exhibit No.</u>	<u>Description</u>
<b>15(a)(1) Financial Statements</b>		
<b>Index to Financial Statements</b>		
Consolidated Financial Statements and Financial Statement Schedule:		
<u>Reports of Independent Registered Public Accounting Firm</u>	<u>F-1</u>	
<u>Consolidated Balance Sheets as of December 31, 2018 and 2017</u>	<u>F-3</u>	
<u>Consolidated Statements of Comprehensive Income for the years ended December 31, 2018, 2017 and 2016</u>	<u>F-4</u>	
<u>Consolidated Statements of Equity for the years ended December 31, 2018, 2017 and 2016</u>	<u>F-5</u>	
<u>Consolidated Statements of Cash Flows for the years ended December 31, 2018, 2017 and 2016</u>	<u>F-6</u>	
<u>Notes to Consolidated Financial Statements</u>	<u>F-9</u>	
<b>15(a)(2) Financial Statement Schedule</b>		
<u>Schedule III—Real Estate and Accumulated Depreciation</u>	<u>F-42</u>	
All other schedules for which provision is made in the applicable accounting regulation of the Securities and Exchange Commission are not required under the related instructions or are inapplicable and therefore have been omitted.		
<b>15(a)(3) Exhibits</b>		
<u>The exhibits listed on the accompanying Index to Exhibits are filed as a part of this report.</u>		
<b>ITEM 16. FORM 10-K SUMMARY</b>		
Not Applicable.		

10.3+	—	<u>AvalonBay Communities, Inc. Second Amended and Restated 2009 Equity Incentive Plan. (Incorporated by reference to Exhibit 10.1 to Form 10-Q of the Company filed August 4, 2017.)</u>	21.1	—	<u>Schedule of Subsidiaries of the Company. (Filed herewith.)</u>
10.4+	—	<u>First Amendment to AvalonBay Communities, Inc. Second Amended and Restated 2009 Equity Incentive Plan, dated February 14, 2019. (Filed herewith.)</u>	23.1	—	<u>Consent of Ernst &amp; Young LLP. (Filed herewith.)</u>
10.5+	—	<u>Form of Stock Grant and Restricted Stock Agreement for use with officers and associates. (Incorporated by reference to Exhibit 10.1 to Form 8-K of the Company filed February 22, 2018.)</u>	31.1	—	<u>Certification pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 (Chief Executive Officer). (Filed herewith.)</u>
10.6+	—	<u>Form of Incentive Stock Option/Non-Qualified Stock Option Agreement for use with officers and associates. (Incorporated by reference to Exhibit 10.2 to Form 8-K of the Company filed February 22, 2018.)</u>	31.2	—	<u>Certification pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 (Chief Financial Officer). (Filed herewith.)</u>
10.7+	—	<u>2018 Amended and Restated Directors Deferred Compensation Program. (Incorporated by reference to Exhibit 10.4 to Form 8-K of the Company filed February 22, 2018.)</u>	32	—	<u>Certification pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 (Chief Executive Officer and Chief Financial Officer). (Furnished herewith.)</u>
10.8+	—	<u>Form of Director Restricted Stock Agreement. (Incorporated by reference to Exhibit 10.5 to Form 8-K of the Company filed February 22, 2018.)</u>	101	—	XBRL (Extensible Business Reporting Language). The following materials from AvalonBay Communities, Inc.'s Annual Report on Form 10-K for the year ended December 31, 2018, formatted in XBRL: (i) consolidated balance sheets, (ii) consolidated statements of comprehensive income, (iii) consolidated statements of equity, (iv) consolidated statements of cash flows and (v) notes to consolidated financial statements.
10.9+	—	<u>Form of Director Restricted Unit Agreement (deferred stock award). (Incorporated by reference to Exhibit 10.6 of Form 8-K of the Company filed February 22, 2018.)</u>			
10.10+	—	<u>Form of Agreement for Grant of Performance-Based Restricted Stock Units with attached Award Terms (subject to changes in weightings, target levels of achievement and metrics used in the award agreement.) (Filed herewith.)</u>	+		Management contract or compensatory plan or arrangement required to be filed or incorporated by reference as an exhibit to this Form 10-K pursuant to Item 15(a)(3) of Form 10-K.
10.11	—	<u>Fourth Amended and Restated Revolving Loan Agreement, dated as of January 14, 2016, among the Company, as Borrower, Bank of America, N.A., as administrative agent, an issuing bank and a bank, JPMorgan Chase Bank, N.A., as an issuing bank, a bank and a syndication agent, Wells Fargo Bank, N.A., as an issuing bank, a bank and a syndication agent, J.P. Morgan Securities LLC, Merrill Lynch, Pierce, Fenner &amp; Smith Incorporated, and Wells Fargo Securities, LLC, as joint bookrunners and joint lead arrangers, and a syndicate of other financial institutions, serving as banks. (Incorporated by reference to Exhibit 1.1 to Form 8-K/A of the Company filed January 15, 2016.)</u>			
10.12+	—	<u>Amended and Restated AvalonBay Communities, Inc. Deferred Compensation Plan, effective as of January 1, 2011. (Incorporated by reference to Exhibit 10.1 to Form 10-Q of the Company filed August 6, 2010.)</u>			
10.13+	—	<u>First Amendment to Amended and Restated AvalonBay Communities, Inc. Deferred Compensation Plan, effective as of November 7, 2011. (Incorporated by reference to Exhibit 10.28 to Form 10-K of the Company filed February 24, 2017.)</u>			
10.14+	—	<u>Second Amendment to Amended and Restated AvalonBay Communities, Inc. Deferred Compensation Plan, effective as of November 15, 2012. (Incorporated by reference to Exhibit 10.29 to Form 10-K of the Company filed February 24, 2017.)</u>			
10.15	—	<u>Archstone Residual JV, LLC Limited Liability Company Agreement. (Incorporated by reference to Exhibit 10.3 to Form 8-K of the Company filed March 5, 2013.)</u>			
10.16	—	<u>Archstone Parallel Residual JV, LLC Limited Liability Company Agreement. (Incorporated by reference to Exhibit 10.4 to Form 8-K of the Company filed March 5, 2013.)</u>			
10.17	—	<u>Archstone Parallel Residual JV 2, LLC Limited Liability Company Agreement. (Incorporated by reference to Exhibit 10.5 to Form 8-K of the Company filed March 5, 2013.)</u>			
10.18	—	<u>Legacy Holdings JV, LLC Limited Liability Company Agreement. (Incorporated by reference to Exhibit 10.6 to Form 8-K of the Company filed March 5, 2013.)</u>			
10.19	—	<u>Term Loan Agreement, dated February 28, 2017, among the Company, as Borrower, PNC Bank, National Association, as Administrative Agent and a bank, The Bank of New York Mellon and Sun Trust Bank, each as Syndication Agent and a bank, and a syndicate of other financial institutions serving as banks. (Incorporated by reference to Exhibit 10.1 to Form 8-K of the Company filed February 28, 2017.)</u>			

## 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.

### AvalonBay Communities, Inc.

Date: February 22, 2019 By: /s/ TIMOTHY J. NAUGHTON  
*Timothy J. Naughton, Director, Chairman, Chief Executive Officer and President (Principal Executive Officer)*

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated.

Date: February 22, 2019 By: /s/ TIMOTHY J. NAUGHTON  
Timothy J. Naughton, Director, Chairman, Chief Executive Officer and President (Principal Executive Officer)

Date: February 22, 2019 By: /s/ KEVIN P. O'SHEA  
Kevin P. O'Shea, Chief Financial Officer (Principal Financial Officer)

Date: February 22, 2019 By: /s/ KERI A. SHEA  
Keri A. Shea, Senior Vice President—Finance & Treasurer (Principal Accounting Officer)

Date: February 22, 2019 By: /s/ GLYN F. AEPPEL  
Glyn F. Aepfel, Director

Date: February 22, 2019 By: /s/ TERRY S. BROWN  
Terry S. Brown, Director

Date: February 22, 2019 By: /s/ ALAN B. BUCKELEW  
Alan B. Buckelew, Director

Date: February 22, 2019 By: /s/ RONALD L. HAVNER, JR.  
Ronald L. Havner, Jr., Director

Date: February 22, 2019 By: /s/ STEPHEN P. HILLS  
Stephen P. Hills, Director

Date: February 22, 2019 By: /s/ RICHARD J. LIEB  
Richard J. Lieb, Director

Date: February 22, 2019 By: /s/ PETER S. RUMMELL  
Peter S. Rummell, Director

Date: February 22, 2019 By: /s/ H. JAY SARLES  
H. Jay Sarles, Director

Date: February 22, 2019 By: /s/ SUSAN SWANEZY  
Susan Swanezy, Director

Date: February 22, 2019 By: /s/ W. EDWARD WALTER  
W. Edward Walter, Director

## Report of Independent Registered Public Accounting Firm

To the Stockholders and the Board of Directors of AvalonBay Communities, Inc.

### Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of AvalonBay Communities, Inc. (the Company) as of December 31, 2018 and 2017, the related consolidated statements of comprehensive income, equity and cash flows for each of the three years in the period ended December 31, 2018, and the related notes and financial statement schedule listed in the Index at Item 15(a)(2) (collectively referred to as the “consolidated financial statements”). In our opinion, the consolidated financial statements present fairly, in all material respects, the financial position of the Company at December 31, 2018 and 2017, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2018, in conformity with U.S. generally accepted accounting principles.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the Company's internal control over financial reporting as of December 31, 2018, based on criteria established in Internal Control-Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework), and our report dated February 22, 2019 expressed an unqualified opinion thereon.

### Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company 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. 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.

/s/ Ernst & Young LLP

We have served as the Company's auditor since 2002.

Tysons, Virginia  
February 22, 2019

**Report of Independent Registered Public Accounting Firm**

To the Stockholders and the Board of Directors of AvalonBay Communities, Inc.

**Opinion on Internal Control over Financial Reporting**

We have audited AvalonBay Communities, Inc.'s internal control over financial reporting as of December 31, 2018, based on criteria established in Internal Control-Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework) (the COSO criteria). In our opinion, AvalonBay Communities, Inc. (the Company) maintained, in all material respects, effective internal control over financial reporting as of December 31, 2018, based on the COSO criteria.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the consolidated balance sheets of the Company as of December 31, 2018 and 2017, the related consolidated statements of comprehensive income, equity and cash flows for each of the three years in the period ended December 31, 2018, and the related notes and financial statement schedule listed in the Index at Item 15(a)(2) and our report dated February 22, 2019 expressed an unqualified opinion thereon.

**Basis for Opinion**

The Company's management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting included in the accompanying Management's Report on Internal Control over Financial Reporting in Item 9A. Our responsibility is to express an opinion on the Company's internal control over financial reporting based on our audit. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company 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 audit in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects.

Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

**Definition and Limitations of Internal Control Over Financial Reporting**

A company's internal control over financial reporting is a process designed 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. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

/s/ Ernst & Young LLP  
Tysons, Virginia  
February 22, 2019

**AVALONBAY COMMUNITIES, INC.  
CONSOLIDATED BALANCE SHEETS  
(Dollars in thousands, except per share data)**

	12/31/18	12/31/17
<b>ASSETS</b>		
Real estate:		
Land and improvements	\$ 4,077,090	\$ 4,237,318
Buildings and improvements	15,651,035	15,708,666
Furniture, fixtures and equipment	696,200	615,288
	<u>20,424,325</u>	<u>20,561,272</u>
Less accumulated depreciation	(4,601,447)	(4,218,379)
Net operating real estate	15,822,878	16,342,893
Construction in progress, including land	1,768,132	1,306,300
Land held for development	84,712	68,364
Real estate assets held for sale, net	55,208	—
Total real estate, net	<u>17,730,930</u>	<u>17,717,557</u>
Cash and cash equivalents	91,659	67,088
Cash in escrow	126,205	134,818
Resident security deposits	31,816	32,686
Investments in unconsolidated real estate entities	217,432	163,475
Deferred development costs	47,443	45,819
Prepaid expenses and other assets	134,715	253,378
Total assets	<u>\$ 18,380,200</u>	<u>\$ 18,414,821</u>
<b>LIABILITIES AND EQUITY</b>		
Unsecured notes, net	\$ 5,905,993	\$ 5,852,764
Variable rate unsecured credit facility	—	—
Mortgage notes payable, net	1,134,270	1,476,706
Dividends payable	204,191	196,094
Payables for construction	96,983	85,377
Accrued expenses and other liabilities	297,700	308,189
Accrued interest payable	46,648	43,116
Resident security deposits	58,415	58,473
Liabilities related to real estate assets held for sale	150	—
Total liabilities	<u>7,744,350</u>	<u>8,020,719</u>
Commitments and contingencies		
Redeemable noncontrolling interests	3,244	6,056
Equity:		
Preferred stock, \$0.01 par value; \$25 liquidation preference; 50,000,000 shares authorized at December 31, 2018 and December 31, 2017; zero shares issued and outstanding at December 31, 2018 and December 31, 2017	—	—
Common stock, \$0.01 par value; 280,000,000 shares authorized at December 31, 2018 and December 31, 2017; 138,508,424 and 138,094,154 shares issued and outstanding at December 31, 2018 and December 31, 2017, respectively	1,385	1,381
Additional paid-in capital	10,306,588	10,235,475
Accumulated earnings less dividends	350,777	188,609
Accumulated other comprehensive loss	(26,144)	(37,419)
Total equity	<u>10,632,606</u>	<u>10,388,046</u>
Total liabilities and equity	<u>\$ 18,380,200</u>	<u>\$ 18,414,821</u>

See accompanying notes to Consolidated Financial Statements.



**AVALONBAY COMMUNITIES, INC.**  
**CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME**  
(Dollars in thousands, except per share data)

	For the year ended		
	12/31/18	12/31/17	12/31/16
<b>Revenue:</b>			
Rental and other income	\$ 2,280,963	\$ 2,154,481	\$ 2,039,656
Management, development and other fees	3,572	4,147	5,599
Total revenue	<u>2,284,535</u>	<u>2,158,628</u>	<u>2,045,255</u>
<b>Expenses:</b>			
Operating expenses, excluding property taxes	528,997	503,946	478,437
Property taxes	241,563	221,375	204,837
Interest expense, net	220,974	199,661	187,510
Loss on extinguishment of debt, net	17,492	25,472	7,075
Depreciation expense	631,196	584,150	531,434
General and administrative expense	56,365	50,673	45,771
Expensed transaction, development and other pursuit costs, net of recoveries	4,309	2,736	9,922
Casualty and impairment loss (gain), net	215	6,250	(3,935)
Total expenses	<u>1,701,111</u>	<u>1,594,263</u>	<u>1,461,051</u>
Equity in income of unconsolidated real estate entities	15,270	70,744	64,962
Gain on sale of communities	374,976	252,599	374,623
Gain (loss) on other real estate transactions, net	345	(10,907)	10,224
Income before income taxes	974,015	876,801	1,034,013
Income tax (benefit) expense	(160)	141	305
Net income	974,175	876,660	1,033,708
Net loss attributable to noncontrolling interests	350	261	294
Net income attributable to common stockholders	<u>\$ 974,525</u>	<u>\$ 876,921</u>	<u>\$ 1,034,002</u>
<b>Other comprehensive income (loss):</b>			
Gain (loss) on cash flow hedges	5,132	(13,979)	(5,556)
Cash flow hedge losses reclassified to earnings	6,143	7,070	6,433
Comprehensive income	<u>\$ 985,800</u>	<u>\$ 870,012</u>	<u>\$ 1,034,879</u>
<b>Earnings per common share - basic:</b>			
Net income attributable to common stockholders	<u>\$ 7.05</u>	<u>\$ 6.36</u>	<u>\$ 7.53</u>
<b>Earnings per common share - diluted:</b>			
Net income attributable to common stockholders	<u>\$ 7.05</u>	<u>\$ 6.35</u>	<u>\$ 7.52</u>

See accompanying notes to Consolidated Financial Statements.

**AVALONBAY COMMUNITIES, INC.**  
**CONSOLIDATED STATEMENTS OF EQUITY**  
(Dollars in thousands)

	Shares issued		Preferred stock	Common stock	Additional paid-in capital	Accumulated earnings less dividends	Accumulated other comprehensive loss	Total equity
	Preferred stock	Common stock						
Balance at December 31, 2015	—	137,002,031	\$ —	\$ 1,370	\$ 10,068,532	\$ (197,989)	\$ (31,387)	\$ 9,840,526
Net income attributable to common stockholders	—	—	—	—	—	1,034,002	—	1,034,002
Loss on cash flow hedges	—	—	—	—	—	—	(5,556)	(5,556)
Cash flow hedge losses reclassified to earnings	—	—	—	—	—	—	6,433	6,433
Change in redemption value and acquisition of noncontrolling interest	—	—	—	—	—	1,489	—	1,489
Dividends declared to common stockholders	—	—	—	—	—	(741,313)	—	(741,313)
Issuance of common stock, net of withholdings	—	328,873	—	3	11,982	(1,290)	—	10,695
Amortization of deferred compensation	—	—	—	—	25,140	—	—	25,140
Balance at December 31, 2016	—	<u>137,330,904</u>	—	<u>1,373</u>	<u>10,105,654</u>	<u>94,899</u>	<u>(30,510)</u>	<u>10,171,416</u>
Net income attributable to common stockholders	—	—	—	—	—	876,921	—	876,921
Loss on cash flow hedges	—	—	—	—	—	—	(13,979)	(13,979)
Cash flow hedge losses reclassified to earnings	—	—	—	—	—	—	7,070	7,070
Change in redemption value and acquisition of noncontrolling interest	—	—	—	—	—	2,026	—	2,026
Dividends declared to common stockholders	—	—	—	—	—	(783,912)	—	(783,912)
Issuance of common stock, net of withholdings	—	763,250	—	8	101,621	(1,325)	—	100,304
Amortization of deferred compensation	—	—	—	—	28,200	—	—	28,200
Balance at December 31, 2017	—	<u>138,094,154</u>	—	<u>1,381</u>	<u>10,235,475</u>	<u>188,609</u>	<u>(37,419)</u>	<u>10,388,046</u>
Net income attributable to common stockholders	—	—	—	—	—	974,525	—	974,525
Gain on cash flow hedges	—	—	—	—	—	—	5,132	5,132
Cash flow hedge losses reclassified to earnings	—	—	—	—	—	—	6,143	6,143
Change in redemption value of noncontrolling interest	—	—	—	—	—	223	—	223
Dividends declared to common stockholders	—	—	—	—	—	(813,722)	—	(813,722)
Issuance of common stock, net of withholdings	—	414,270	—	4	39,408	1,142	—	40,554
Amortization of deferred compensation	—	—	—	—	31,705	—	—	31,705
Balance at December 31, 2018	—	<u>138,508,424</u>	\$ —	<u>\$ 1,385</u>	<u>\$ 10,306,588</u>	<u>\$ 350,777</u>	<u>\$ (26,144)</u>	<u>\$ 10,632,606</u>

See accompanying notes to Consolidated Financial Statements.

**AVALONBAY COMMUNITIES, INC**  
**CONSOLIDATED STATEMENTS OF CASH FLOWS**  
(Dollars in thousands)

	For the year ended		
	12/31/18	12/31/17	12/31/16
Cash flows from operating activities:			
Net income	\$ 974,175	\$ 876,660	\$ 1,033,708
Adjustments to reconcile net income to cash provided by operating activities:			
Depreciation expense	631,196	584,150	531,434
Amortization of deferred financing costs	7,939	7,657	7,661
Amortization of debt discount (premium)	1,701	(5,915)	(18,866)
Loss on extinguishment of debt, net	17,492	25,472	7,075
Amortization of stock-based compensation	20,280	17,920	15,082
Equity in loss (income) of, and return on, unconsolidated real estate entities and noncontrolling interests, net of eliminations	6,583	(19,798)	8,870
Casualty and impairment loss (gain), net	826	8,568	(3,935)
Abandonment of development pursuits	501	388	1,743
Cash flow hedge losses reclassified to earnings	6,143	7,070	6,433
Gain on sale of real estate assets	(385,976)	(281,745)	(442,916)
Decrease (increase) in resident security deposits, prepaid expenses and other assets	17,428	3,076	(5,403)
Increase in accrued expenses, other liabilities and accrued interest payable	2,823	32,754	19,386
Net cash provided by operating activities	<u>1,301,111</u>	<u>1,256,257</u>	<u>1,160,272</u>
Cash flows from investing activities:			
Development/redevelopment of real estate assets including land acquisitions and deferred development costs	(1,139,954)	(979,947)	(1,201,026)
Acquisition of real estate assets, including partnership interest	(338,620)	(462,317)	(393,316)
Capital expenditures - existing real estate assets	(83,607)	(65,181)	(66,971)
Capital expenditures - non-real estate assets	(3,325)	(8,809)	(5,881)
Increase (decrease) in payables for construction	11,606	(15,621)	2,196
Proceeds from sale of real estate, net of selling costs	883,313	503,039	532,717
Insurance proceeds for property damage claims	—	16,233	17,196
Mortgage note receivable lending	(3,699)	(17,590)	(19,115)
Mortgage note receivable payments	53,136	—	—
Distributions from unconsolidated real estate entities	35,516	89,305	111,598
Investments in unconsolidated real estate entities	(11,017)	(24,493)	(9,750)
Net cash used in investing activities	<u>(596,651)</u>	<u>(965,381)</u>	<u>(1,032,352)</u>
Cash flows from financing activities:			
Issuance of common stock, net	52,261	111,093	15,526
Dividends paid	(805,239)	(772,657)	(726,749)
Issuance of mortgage notes payable	295,939	206,800	—
Repayments of mortgage notes payable, including prepayment penalties	(255,452)	(1,313,025)	(168,076)
Issuance of unsecured notes	299,442	1,696,826	1,122,488
Repayment of unsecured notes, including prepayment penalties	(258,579)	(300,000)	(504,403)
Payment of deferred financing costs	(16,258)	(17,552)	(16,240)
Payment of capital lease obligation	(1,070)	(18,951)	—
Receipts (payments) for termination of forward interest rate swaps	12,598	391	(14,847)
Payments related to tax withholding for share-based compensation	(10,556)	(10,450)	(8,562)
Distributions to DownREIT partnership unitholders	(44)	(42)	(41)
Contributions from joint venture and profit-sharing partners	—	1,038	—
Distributions to joint venture and profit-sharing partners	(424)	(418)	(407)
Preferred interest obligation redemption and dividends	(1,120)	(2,000)	(1,960)
Net cash used in financing activities	<u>(688,502)</u>	<u>(418,947)</u>	<u>(303,271)</u>
Net increase (decrease) in cash and cash equivalents	15,958	(128,071)	(175,351)
Cash and cash equivalents and restricted cash, beginning of year	201,906	329,977	505,328
Cash and cash equivalents and restricted cash, end of year	<u>\$ 217,864</u>	<u>\$ 201,906</u>	<u>\$ 329,977</u>
Cash paid during the year for interest, net of amount capitalized	<u>\$ 201,659</u>	<u>\$ 207,842</u>	<u>\$ 194,059</u>

See accompanying notes to Consolidated Financial Statements.

The following table provides a reconciliation of cash, cash equivalents and restricted cash reported with the Consolidated Statements of Cash Flows (dollars in thousands):

	For the year ended		
	12/31/18	12/31/17	12/31/16
Cash and cash equivalents	\$ 91,659	\$ 67,088	\$ 214,994
Cash in escrow	126,205	134,818	114,983
Cash, cash equivalents and restricted cash shown in the Consolidated Statements of Cash Flows	<u>\$ 217,864</u>	<u>\$ 201,906</u>	<u>\$ 329,977</u>

Supplemental disclosures of non-cash investing and financing activities:

During the year ended December 31, 2018:

- As described in Note 4, "Equity," 187,010 shares of common stock were issued as part of the Company's stock based compensation plans, of which 88,297 shares related to the conversion of performance awards to restricted shares, and the remaining 98,713 shares valued at \$15,950,000 were issued in connection with new stock grants; 2,272 shares valued at \$387,000 were issued through the Company's dividend reinvestment plan; 68,565 shares valued at \$10,556,000 were withheld to satisfy employees' tax withholding and other liabilities; and 4,860 restricted shares with an aggregate value of \$717,000 previously issued in connection with employee compensation were canceled upon forfeiture.
- Common stock dividends declared but not paid totaled \$204,191,000.
- The Company recorded a decrease of \$223,000 in redeemable noncontrolling interest with a corresponding increase to accumulated earnings less dividends to adjust the redemption value associated with the put options held by joint venture partners and DownREIT partnership units. For further discussion of the nature and valuation of these items, see Note 11, "Fair Value."
- The Company recorded an increase in other liabilities of \$6,366,000, and a corresponding adjustment to other comprehensive income, and reclassified \$6,143,000 of cash flow hedge losses from other comprehensive income to interest expense, net, to record the impact of the Company's derivative and hedge accounting activity.
- In conjunction with the formation of NYTA MF Investors LLC (the "NYC Joint Venture"), the venture assumed \$395,939,000 of secured indebtedness as partial consideration for the purchase of the associated operating communities and the Company recorded an investment of \$74,159,000 in unconsolidated real estate entities, representing its 20.0% retained interest in the venture. See Note 5, "Investments in Real Estate Entities," for additional discussion of the venture.

During the year ended December 31, 2017:

- The Company issued 201,824 shares of common stock as part of the Company's stock based compensation plans, of which 128,482 shares related to the conversion of performance awards to restricted shares, and the remaining 73,342 shares valued at \$13,171,000 were issued in connection with new stock grants; 3,058 shares valued at \$558,000 were issued through the Company's dividend reinvestment plan; 60,319 shares valued at \$10,542,000 were withheld to satisfy employees' tax withholding and other liabilities; and 3,388 restricted shares with an aggregate value of \$588,000 previously issued in connection with employee compensation were canceled upon forfeiture.
- Common stock dividends declared but not paid totaled \$196,094,000.
- The Company recorded a decrease of \$65,000 in redeemable noncontrolling interest with a corresponding increase to accumulated earnings less dividends to adjust the redemption value associated with the put options held by joint venture partners and DownREIT partnership units.
- The Company recorded a decrease in prepaid expenses and other assets of \$12,114,000 and an increase in other liabilities of \$1,171,000, and a corresponding adjustment to other comprehensive income, and reclassified \$7,070,000 of cash flow hedge losses from other comprehensive income to interest expense, net, to record the impact of the Company's derivative and hedge accounting activity.

- As discussed in Note 1, "Organization, Basis of Presentation and Significant Accounting Policies," the Company recognized a non-cash charge of \$16,361,000 to write-off the net book value of the fixed assets destroyed by the fire that occurred in February 2017 at the Company's Avalon Maplewood ("Maplewood") which at the time was under construction and not yet occupied.

During the year ended December 31, 2016:

- The Company issued 197,018 shares of common stock as part of the Company's stock based compensation plan, of which 115,618 shares related to the conversion of performance awards to restricted shares, and the remaining 81,400 shares valued at \$13,217,000 were issued in connection with new stock grants; 44,327 shares valued at \$3,894,000 were issued in conjunction with the conversion of deferred stock awards; 2,396 shares valued at \$424,000 were issued through the Company's dividend reinvestment plan; 53,453 shares valued at \$8,356,000 were withheld to satisfy employees' tax withholding and other liabilities; and 4,262 restricted shares with an aggregate value of \$694,000 previously issued in connection with employee compensation were canceled upon forfeiture.
- Common stock dividends declared but not paid totaled \$185,397,000.
- The Company recorded a decrease of \$1,489,000 in redeemable noncontrolling interest with a corresponding increase to accumulated earnings less dividends to adjust the redemption value associated with the put options held by joint venture partners and DownREIT partnership units.
- The Company recorded an increase in prepaid expenses and other assets and a corresponding gain to other comprehensive income of \$12,085,000 and reclassified \$6,433,000 of cash flow hedge losses from other comprehensive income to interest expense, net, to record the impact of the Company's derivative and hedge accounting activity.
- The Company assumed fixed rate indebtedness with a principal amount of \$67,904,000 in conjunction with the acquisition of Avalon Hoboken.
- The Company assumed fixed rate indebtedness with a principal amount of \$70,507,000 in conjunction with the acquisition of Avalon Columbia Pike.
- The Company completed the construction of and sold an affordable restricted apartment building, containing 77 apartment homes, which is adjacent to a completed Development Community. The Company received a mortgage note in the amount of \$18,643,000 as consideration for the sale, which is secured by the underlying real estate.

See accompanying notes to Consolidated Financial Statements.

**AVALONBAY COMMUNITIES, INC.**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**

**1. Organization, Basis of Presentation and Significant Accounting Policies**

*Organization and Basis of Presentation*

AvalonBay Communities, Inc. (the "Company," which term, unless the context otherwise requires, refers to AvalonBay Communities, Inc. together with its subsidiaries), is a Maryland corporation that has elected to be treated as a real estate investment trust ("REIT") for federal income tax purposes under the Internal Revenue Code of 1986 (the "Code"). The Company focuses on the development, redevelopment, acquisition, ownership and operation of multifamily communities primarily in New England, the New York/New Jersey metro area, the Mid-Atlantic, the Pacific Northwest, and Northern and Southern California.

At December 31, 2018, the Company owned or held a direct or indirect ownership interest in 270 operating apartment communities containing 78,549 apartment homes in 12 states and the District of Columbia, of which nine communities containing 3,648 apartment homes were under redevelopment. In addition, the Company owned or held a direct or indirect ownership interest in 21 communities under development that are expected to contain an aggregate of 6,609 apartment homes (unaudited) when completed, and a mixed-use project being developed in which the Company is currently pursuing a potential for-sale strategy of individual condominium units. The Company also owned or held a direct or indirect ownership interest in land or rights to land in which the Company expects to develop an additional 28 communities that, if developed as expected, will contain an estimated 9,769 apartment homes (unaudited).

Capitalized terms used without definition have meanings provided elsewhere in this Form 10-K.

*Principles of Consolidation*

The accompanying Consolidated Financial Statements include the accounts of the Company and its wholly-owned subsidiaries, certain joint venture partnerships, subsidiary partnerships structured as DownREITs and any variable interest entities that qualify for consolidation. All significant intercompany balances and transactions have been eliminated in consolidation.

The Company accounts for joint venture entities and subsidiary partnerships in accordance with the consolidation guidance. The Company evaluates the partnership of each joint venture entity and determines first whether to follow the variable interest entity ("VIE") or the voting interest entity ("VOE") model. Once the appropriate consolidation model is identified, the Company then evaluates whether it should consolidate the venture. Under the VIE model, the Company consolidates an investment when it has control to direct the activities of the venture and the obligation to absorb losses or the right to receive benefits that could potentially be significant to the VIE. Under the VOE model, the Company consolidates an investment when 1) it controls the investment through ownership of a majority voting interest if the investment is not a limited partnership or 2) it controls the investment through its ability to remove the other partners in the investment, at its discretion, when the investment is a limited partnership.

The Company generally uses the equity method of accounting for its investment in joint ventures, including when the Company holds a noncontrolling limited partner interest in a joint venture. Any investment in excess of the Company's cost basis at acquisition or formation of an equity method venture, will be recorded as a component of the Company's investment in the joint venture and recognized over the life of the underlying fixed assets of the venture as a reduction to its equity in income from the venture. Investments in which the Company has little or no influence are accounted for using the cost method.

*Revenue and Gain Recognition*

The Company accounts for its leases with its residents and retail tenants as operating leases. For lease agreements that provide for rent concessions and/or scheduled fixed and determinable rent increases, rental income is recognized on a straight-line basis over the noncancellable term of the lease. The Company's residential lease term is generally one year. The Company records a charge to income for uncollectible outstanding receivables past due as a component of operating expenses, excluding property taxes on the accompanying Consolidated Statements of Comprehensive Income.

As of January 1, 2018, the Company adopted ASU 2014-09, Revenue from Contracts with Customers, using the modified retrospective approach, which applies the new standard to contracts that are not completed as of the date of adoption. Under the new standard, revenue is recognized in accordance with the transfer of goods and services to customers at an amount that reflects the consideration that the Company expects to be entitled to for those goods and services. The majority of the Company's revenue is derived from residential and retail rental income and other lease income, which are scoped out from this standard and included in the current lease accounting framework, and will be accounted for under ASU 2016-02, Leases, discussed under "Recently Issued and Adopted Accounting Standards" below. Revenue streams that are scoped into ASU 2014-09 include:

- **Management fees** - The Company has investment interests in real estate joint ventures, for which the Company may manage (i) the venture, (ii) the associated operating communities owned by the ventures and/or (iii) the development or redevelopment of those operating communities. For these activities, the Company receives asset management, property management, development and/or redevelopment fee revenue. The performance obligation is the management of the venture, community or other defined task such as the development or redevelopment of the community. While the individual activities that comprise the performance obligation of the management fees can vary day to day, the nature of the overall performance obligation to provide management service is the same and considered by the Company to be a series of services that have the same pattern of transfer to the customer and the same method to measure progress toward satisfaction of the performance obligation. The Company recognizes revenue for fees as earned on a monthly basis and has concluded this is appropriate under the new standard.
- **Rental and non-rental related income** - The Company recognizes revenue for new rental related income not included as components of a lease, such as reservation and application fees, as well as for non-rental related income, as earned, and has concluded this is appropriate under the new standard.
- **Gains or losses on sales of real estate** - The Company accounts for the sale of real estate assets and any related gain recognition in accordance with the accounting guidance applicable to sales of real estate, which establishes standards for recognition of profit on all real estate sales transactions, other than retail land sales. The Company recognizes the sale, and associated gain or loss from the disposition, provided that the earnings process is complete and the Company does not have significant continuing involvement. Subsequent to the adoption of the new standard, a gain or loss is recognized when the criteria for an asset to be derecognized are met, which include when (i) a contract exists and (ii) the buyer obtained control of the nonfinancial asset that was sold. As a result, the Company may recognize a gain on a real estate disposition transaction that previously did not qualify as a sale or for full profit recognition due to the timing of the transfer of control or certain forms of continuing involvement. In addition, as discussed under ASU 2017-05, included in "Recently Issued and Adopted Accounting Standards" below, subsequent to the adoption of the new standard, a gain or loss recognized on the sale of a nonfinancial asset to an unconsolidated entity will be recognized at 100%, and not the Company's proportionate ownership percentage.

The Company concluded that the adoption of the new standard did not require an adjustment to the opening balance of retained earnings.

The following table provides details of the Company's revenue streams disaggregated by the Company's reportable operating segments, further discussed in Note 8, "Segment Reporting," for the years ended December 31, 2018, 2017 and 2016. The segments are classified based on the individual community's status at January 1, 2018 for the years ended December 31, 2018 and 2017, and at January 1, 2017 for the year ended December 31, 2016. Segment information for total revenue has been adjusted to exclude the real estate assets that were sold from January 1, 2016 through December 31, 2018, or otherwise qualify as held for sale as of December 31, 2018, as described in Note 6, "Real Estate Disposition Activities," (dollars in thousands):

	Established Communities	Other Stabilized Communities	Development/Redevelopment Communities	Non-allocated (1)	Total
<b>For the year ended December 31, 2018</b>					
Management, development and other fees	\$ —	\$ —	\$ —	\$ 3,572	\$ 3,572
Rental and non-rental related income (2)	9,563	2,417	1,913	—	13,893
Total non-lease revenue (3)	9,563	2,417	1,913	3,572	17,465
Lease income (4)	1,622,837	259,636	295,706	—	2,178,179
Business interruption insurance proceeds	26	—	—	—	26
<b>Total revenue</b>	<b>\$ 1,632,426</b>	<b>\$ 262,053</b>	<b>\$ 297,619</b>	<b>\$ 3,572</b>	<b>\$ 2,195,670</b>
<b>For the year ended December 31, 2017</b>					
Management, development and other fees	\$ —	\$ —	\$ —	\$ 4,147	\$ 4,147
Rental and non-rental related income (2)	9,453	2,083	1,478	—	13,014
Total non-lease revenue (3)	9,453	2,083	1,478	4,147	17,161
Lease income (4)	1,582,209	191,511	230,293	—	2,004,013
Business interruption insurance proceeds (5)	3	—	3,495	—	3,498
<b>Total revenue</b>	<b>\$ 1,591,665</b>	<b>\$ 193,594</b>	<b>\$ 235,266</b>	<b>\$ 4,147</b>	<b>\$ 2,024,672</b>
<b>For the year ended December 31, 2016</b>					
Management, development and other fees	\$ —	\$ —	\$ —	\$ 5,599	\$ 5,599
Rental and non-rental related income (2)	8,299	2,172	1,394	—	11,865
Total non-lease revenue (3)	8,299	2,172	1,394	5,599	17,464
Lease income (4)	1,423,658	219,035	185,343	—	1,828,036
Business interruption insurance proceeds (6)	152	65	20,312	—	20,529
<b>Total revenue</b>	<b>\$ 1,432,109</b>	<b>\$ 221,272</b>	<b>\$ 207,049</b>	<b>\$ 5,599</b>	<b>\$ 1,866,029</b>

- (1) Revenue represents third-party management, asset management and developer fees and miscellaneous income which are not allocated to a reportable segment.
- (2) Amounts include revenue streams related to leasing activities that are not considered components of a lease, including but not limited to, apartment hold fees and application fees, as well as revenue streams not related to leasing activities, including but not limited to, vendor revenue sharing, building advertising, vending and dry cleaning revenue.
- (3) Represents all revenue accounted for under ASC 2014-09.
- (4) Amounts include all revenue streams derived from residential and retail rental income and other lease income, which are excluded from ASC 2014-09 and accounted for under the lease accounting framework.
- (5) Amount for 2017 is primarily business interruption insurance proceeds related to the Maplewood casualty loss as discussed below in "Casualty Gains and Losses."
- (6) Amount for 2016 is primarily business interruption insurance proceeds related to the Edgewater casualty loss as discussed below in "Casualty Gains and Losses."

Due to the nature and timing of the Company's identified revenue streams, there are no material amounts of outstanding or unsatisfied performance obligations as of December 31, 2018.

## Real Estate

Operating real estate assets are stated at cost and consist of land and improvements, buildings and improvements, furniture, fixtures and equipment, and other costs incurred during their development, redevelopment and acquisition. Significant expenditures which improve or extend the life of an existing asset and that will benefit the Company for periods greater than a year, are capitalized. Expenditures for maintenance and repairs are charged to expense as incurred.

Project costs related to the development, construction and redevelopment of real estate projects (including interest and related loan fees, property taxes and other direct costs) are capitalized as a cost of the project. Indirect project costs that relate to several projects are capitalized and allocated to the projects to which they relate. Indirect costs not clearly related to development, construction and redevelopment activity are expensed as incurred. For development, capitalization (i) begins when the Company has determined that development of the future asset is probable, (ii) can be suspended if there is no current development activity underway, but future development is still probable and (iii) ends when the asset, or a portion of an asset, is delivered and is ready for its intended use, or the Company's intended use changes such that capitalization is no longer appropriate.

For land parcels improved with operating real estate, for which the Company intends to pursue development, the Company generally manages the current improvements until such time as all tenant obligations have been satisfied or eliminated through negotiation, and construction of new apartment communities is ready to begin. Revenue from incidental operations received from the current improvements on land parcels in excess of any incremental costs are recorded as a reduction of total capitalized costs of the respective Development Right and not as part of net income. Incidental operating costs in excess of incidental operating income are expensed in the period incurred.

For redevelopment efforts, the Company capitalizes costs either (i) in advance of taking homes out of service when significant renovation of the common area has begun until the redevelopment is completed, or (ii) when an apartment home is taken out of service for redevelopment until the redevelopment is completed and the apartment home is available for a new resident. Rental income and operating costs incurred during the initial lease-up or post-redevelopment lease-up period are recognized in earnings as incurred.

The adoption of ASU 2017-01 on October 1, 2016, impacted the Company's accounting framework for the acquisition of operating communities. Prior to adoption, the acquisition of an operating community was viewed as an acquisition of a business, and the Company identified and recorded each asset acquired and liability assumed in such transaction at its estimated fair value at the date of acquisition, and expensed all costs incurred related to acquisitions of operating communities. Subsequent to adoption of ASU 2017-01 on October 1, 2016, the Company assesses each acquisition of an operating community to determine if it meets the definition of a business or if it qualifies as an asset acquisition. The Company generally views acquisitions of individual operating communities as asset acquisitions, and results in the capitalization of acquisition costs, and the allocation of purchase price to the assets acquired and liabilities assumed, based on the relative fair value of the respective assets and liabilities.

The purchase price allocation to tangible assets, such as land and improvements, buildings and improvements, and furniture, fixtures and equipment, and the in-place lease intangible assets, is reflected in real estate assets and depreciated over their estimated useful lives. Any purchase price allocation to intangible assets, other than in-place lease intangibles, is included in prepaid expenses and other assets on the accompanying Consolidated Balance Sheets and amortized over the term of the acquired intangible asset. The Company values land based on a market approach, looking to recent sales of similar properties, adjusting for differences due to location, the state of entitlement as well as the shape and size of the parcel. Improvements to land are valued using a replacement cost approach and consider the structures and amenities included for the communities. The approach for improvements applies industry standard replacement costs adjusted for geographic specific considerations and reduced by estimated depreciation. The value for furniture, fixtures and equipment is also determined based on a replacement cost approach, considering costs for both items in the apartment homes as well as common areas and was adjusted for estimated depreciation. The fair value of buildings acquired is estimated using the replacement cost approach, assuming the buildings were vacant at acquisition. The replacement cost approach considers the composition of structures acquired, adjusted for an estimate of depreciation. The estimate of depreciation is made considering industry standard information, depreciation curves for the identified asset classes and estimated useful life of the acquired property. The value of the acquired lease-related intangibles considers the estimated cost of leasing the apartment homes as if the acquired building(s) were vacant, as well as the value of the current leases relative to market-rate leases. The in-place lease value is determined using an average total lease-up time, the number of apartment homes and net revenues generated during the lease-up time. The lease-up period for an apartment community is assumed to be 12 months to achieve stabilized occupancy. Net revenues use market rent considering actual leasing and industry rental rate data. The value of current leases relative to a market-rate lease is based on market rents obtained for market comparables, and considered a market derived discount rate. Given the heterogeneous nature of multifamily real estate, the fair values for the land, debt, real estate assets and in-place leases

incorporated significant unobservable inputs and therefore are considered to be Level 3 prices within the fair value hierarchy. Consideration for acquisitions is typically in the form of cash unless otherwise disclosed.

Depreciation is calculated on buildings and related improvements using the straight-line method over their estimated useful lives, which range from seven to 30 years. Furniture, fixtures and equipment are generally depreciated using the straight-line method over their estimated useful lives, which range from three years (primarily computer-related equipment) to seven years.

## Income Taxes

The Company elected to be treated as a REIT for U.S. federal income tax purposes for its tax year ended December 31, 1994 and has not revoked such election. A REIT is a corporate entity which holds real estate interests and can deduct from its federally taxable income qualifying dividends it pays if it meets a number of organizational and operational requirements, including a requirement that it currently distribute at least 90% of its adjusted taxable income to stockholders. Therefore, as a REIT, the Company generally will not be subject to corporate level federal income tax on its taxable income if it annually distributes 100% of its taxable income to its stockholders.

The states in which the Company operates have similar tax provisions which recognize the Company as a REIT for state income tax purposes. Management believes that all such conditions for the exemption from income taxes on ordinary income have been or will be met for the periods presented. Accordingly, no provision for federal and state income taxes has been made. If the Company fails to qualify as a REIT in any taxable year, it will be subject to federal corporate income taxes at regular corporate rates and may not be able to qualify as a corporate REIT for four subsequent taxable years. Even if the Company qualifies for taxation as a REIT, the Company may be subject to certain state and local taxes on its income and property, and to federal income and excise taxes on its undistributed taxable income and in certain other instances.

The Company did not incur any charges or receive refunds of excise taxes related to the years ended December 31, 2018, 2017 and 2016.

In addition, taxable income from non-REIT activities performed through taxable REIT subsidiaries ("TRS") is subject to federal, state and local income taxes. The Company recorded an income tax benefit of \$160,000 in 2018 and incurred income tax expense of \$141,000 and \$305,000 in 2017 and 2016, respectively, associated primarily with activities transacted through a TRS. As of December 31, 2018 and 2017, the Company did not have any unrecognized tax benefits. The Company does not believe that there will be any material changes in its unrecognized tax positions over the next 12 months. The Company is subject to examination by the respective taxing authorities for the tax years 2015 through 2017.

On December 22, 2017, H.R. 1, the Tax Cuts and Jobs Act (the "TCJA"), was enacted. The TCJA makes major changes to the Code, including lowering the statutory U.S. federal income tax rate from 35% to 21% effective January 1, 2018. The Company does not believe the TCJA had a material impact on its financial position or results of operations.

The following reconciles net income attributable to common stockholders to taxable net income for the years ended December 31, 2018, 2017 and 2016 (unaudited, dollars in thousands):

	2018 Estimate	2017 Actual	2016 Actual
Net income attributable to common stockholders	\$ 974,525	\$ 876,921	\$ 1,034,002
GAAP gain on sale of communities in excess of tax gain	(194,596)	(86,661)	(195,029)
Depreciation/amortization timing differences on real estate	5,431	(3,642)	(947)
Amortization of debt/mark to market interest	2,276	(18,096)	(18,985)
Tax compensation expense (in excess of) less than GAAP	(612)	3,912	9,821
Casualty and impairment loss (gain), net	19,153	20,243	(657)
Other adjustments	(4,905)	(4,304)	11,533
Taxable net income	<u>\$ 801,272</u>	<u>\$ 788,373</u>	<u>\$ 839,738</u>

The following summarizes the tax components of the Company's common dividends declared for the years ended December 31, 2018, 2017 and 2016 (unaudited):

	2018	2017	2016
Ordinary income	76%	75%	68%
20% capital gain	11%	18%	26%
Unrecaptured §1250 gain	13%	7%	6%

#### Deferred Financing Costs

Deferred financing costs include fees and other expenditures necessary to obtain debt financing and are amortized on a straight-line basis, which approximates the effective interest method, over the shorter of the term of the loan or the related credit enhancement facility, if applicable. Unamortized financing costs are charged to earnings when debt is retired before the maturity date. Accumulated amortization of deferred financing costs related to unsecured notes was \$20,564,000 and \$16,984,000 as of December 31, 2018 and 2017, respectively, and related to mortgage notes payable was \$2,044,000 and \$4,991,000 as of December 31, 2018 and 2017, respectively. Deferred financing costs, except for costs associated with line-of-credit arrangements, are presented as a direct deduction from the related debt liability. Accumulated amortization of deferred financing costs related to the Company's Credit Facility was \$10,108,000 and \$8,299,000 as of December 31, 2018 and 2017, respectively, and was included in prepaid expenses and other assets on the accompanying Consolidated Balance Sheets.

#### Cash, Cash Equivalents and Cash in Escrow

Cash and cash equivalents include all cash and liquid investments with an original maturity of three months or less from the date acquired. Cash in escrow includes principal reserve funds that are restricted for the repayment of specified secured financing. The majority of the Company's cash, cash equivalents and cash in escrow are held at major commercial banks.

#### Comprehensive Income

Comprehensive income, as reflected on the Consolidated Statements of Comprehensive Income, is defined as all changes in equity during each period except for those resulting from investments by or distributions to shareholders. Accumulated other comprehensive loss, as reflected on the Consolidated Statements of Equity, reflects the effective portion of the cumulative changes in the fair value of derivatives in qualifying cash flow hedge relationships.

#### Earnings per Common Share

Basic earnings per share is computed by dividing net income attributable to common stockholders by the weighted average number of shares outstanding during the period. All outstanding unvested restricted share awards contain rights to non-forfeitable dividends and participate in undistributed earnings with common shareholders and, accordingly, are considered participating securities that are included in the two-class method of computing basic earnings per share ("EPS"). Both the unvested restricted shares and other potentially dilutive common shares, and the related impact to earnings, are considered when calculating earnings per share on a diluted basis. The Company's earnings per common share are determined as follows (dollars in thousands, except per share data):

	For the year ended		
	12/31/18	12/31/17	12/31/16
<b>Basic and diluted shares outstanding</b>			
Weighted average common shares—basic	137,844,755	137,523,771	136,928,251
Weighted average DownREIT units outstanding	7,500	7,500	7,500
Effect of dilutive securities	436,986	535,415	525,886
Weighted average common shares—diluted	<u>138,289,241</u>	<u>138,066,686</u>	<u>137,461,637</u>
<b>Calculation of Earnings per Share—basic</b>			
Net income attributable to common stockholders	\$ 974,525	\$ 876,921	\$ 1,034,002
Net income allocated to unvested restricted shares	(2,839)	(2,463)	(2,610)
Net income attributable to common stockholders, adjusted	<u>\$ 971,686</u>	<u>\$ 874,458</u>	<u>\$ 1,031,392</u>
Weighted average common shares—basic	<u>137,844,755</u>	<u>137,523,771</u>	<u>136,928,251</u>
Earnings per common share—basic	<u>\$ 7.05</u>	<u>\$ 6.36</u>	<u>\$ 7.53</u>
<b>Calculation of Earnings per Share—diluted</b>			
Net income attributable to common stockholders	\$ 974,525	\$ 876,921	\$ 1,034,002
Add: noncontrolling interests of DownREIT unitholders in consolidated partnerships, including discontinued operations	44	42	41
Adjusted net income attributable to common stockholders	<u>\$ 974,569</u>	<u>\$ 876,963</u>	<u>\$ 1,034,043</u>
Weighted average common shares—diluted	<u>138,289,241</u>	<u>138,066,686</u>	<u>137,461,637</u>
Earnings per common share—diluted	<u>\$ 7.05</u>	<u>\$ 6.35</u>	<u>\$ 7.52</u>
Dividends per common share	<u>\$ 5.88</u>	<u>\$ 5.68</u>	<u>\$ 5.40</u>

All options to purchase shares of common stock outstanding as of December 31, 2018, 2017 and 2016 are included in the computation of diluted earnings per share.

#### Abandoned Pursuit Costs and Impairment of Long-Lived Assets

The Company capitalizes pre-development costs incurred in pursuit of new development opportunities for which the Company currently believes future development is probable ("Development Rights"). Future development of these Development Rights is dependent upon various factors, including zoning and regulatory approval, rental market conditions, construction costs and the availability of capital. Initial pre-development costs incurred for pursuits for which future development is not yet considered probable are expensed as incurred. In addition, if the status of a Development Right changes, making future development by the Company no longer probable, any non-recoverable capitalized pre-development costs are expensed. The Company expensed costs related to the abandonment of Development Rights, as well as costs incurred in pursuing the acquisition or disposition of assets for which such acquisition and disposition activity did not occur, in the amounts of \$4,388,000, \$2,370,000 and \$4,183,000 during the years ended December 31, 2018, 2017 and 2016, respectively. These costs are included in expensed acquisition, development and other pursuit costs, net of recoveries on the accompanying Consolidated Statements of Comprehensive Income. Abandoned pursuit costs can vary greatly, and the costs incurred in any given period may be significantly different in future periods.

The Company evaluates its real estate and other long-lived assets for impairment when potential indicators of impairment exist. Such assets are stated at cost, less accumulated depreciation and amortization, unless the carrying amount of the asset is not recoverable. If events or circumstances indicate that the carrying amount of a property or long-lived asset may not be recoverable, the Company assesses its recoverability by comparing the carrying amount of the property or long-lived asset to its estimated undiscounted future cash flows. If the carrying amount exceeds the aggregate undiscounted future cash flows, the Company recognizes an impairment loss to the extent the carrying amount exceeds the estimated fair value of the property or long-lived asset. Based on periodic tests of recoverability of long-lived assets, for the years ended December 31, 2018, 2017 and 2016, the Company did not recognize any impairment losses for wholly-owned operating real estate assets, and did not record any impairment losses other than those related to the impairment on land held for investment and casualty gains and losses from property damage as discussed below.

The Company assesses its portfolio of land held for both development and investment for impairment if the intent of the Company changes with respect to either the development of, or the expected holding period for, the land. During the year ended December 31, 2018, the Company recognized an impairment charge of \$826,000 related to a land parcel the Company had previously acquired for development and no longer intends to develop. During the year ended December 31, 2017, the Company recognized an impairment charge of \$9,350,000 related to a land parcel the Company had acquired for development in 2004 and sold during 2017. During the year ended December 31, 2016, the Company recognized \$10,500,000 of aggregate impairment charges related to three ancillary land parcels for which the Company has either sold or intended to sell. These charges were determined as the excess of the Company's carrying basis over the expected sales price for each parcel, and is included in casualty and impairment loss (gain), net on the accompanying Consolidated Statements of Comprehensive Income.

The Company evaluates its unconsolidated investments for other than temporary impairment, considering both the extent and amount by which the carrying value of the investment exceeds the fair value, and the Company's intent and ability to hold the investment to recover its carrying value. The Company also evaluates its proportionate share of any impairment of assets held by unconsolidated investments. There were no other than temporary impairment losses recognized by any of the Company's investments in unconsolidated real estate entities during the years ended December 31, 2018, 2017 or 2016.

#### *Casualty Gains and Losses*

In February 2017, a fire occurred at the Company's Avalon Maplewood, located in Maplewood, NJ, which at the time was under construction and not yet occupied. The Company completed reconstruction of the damaged and destroyed portions of the community as well as the vertical construction of the community in 2018. During the year ended December 31, 2017, the Company recorded a net casualty loss of \$2,338,000 for the fire at Maplewood, included in casualty and impairment loss (gain), net on the accompanying Consolidated Statements of Comprehensive Income. During the year ended December 31, 2017, the Company reached a final insurance settlement for the property damage and lost income for the Maplewood casualty loss of \$19,696,000, after self-insurance and deductibles, of which the Company recognized \$3,495,000 as business interruption insurance proceeds. See Note 7, "Commitments and Contingencies," for additional discussion of the related casualty loss.

In January 2015, a fire occurred at the Company's Avalon at Edgewater apartment community located in Edgewater, NJ. Edgewater consisted of two residential buildings. One building, containing 240 apartment homes, was destroyed. The second building, containing 168 apartment homes, suffered minimal damage and has been repaired. See Note 7, "Commitments and Contingencies," for discussion of the related legal matters. During the year ended December 31, 2016, the Company reached a final insurance settlement for the Company's property damage and lost income for the Edgewater casualty loss, for which it received aggregate insurance proceeds for Edgewater of \$73,150,000, after self-insurance and deductibles, of which \$29,008,000 was received in 2016. Of this amount, \$8,702,000 was recognized as casualty gain, reported as casualty and impairment loss (gain), net on the accompanying Consolidated Statements of Comprehensive Income, and \$20,306,000 as business interruption insurance proceeds reported as a component of rental and other income on the accompanying Consolidated Statements of Comprehensive Income.

During the year ended December 31, 2016, the Company recorded a net casualty gain related to 2015 severe winter storms of \$5,732,000, which is comprised of \$8,493,000 in third-party insurance proceeds received, partially offset by incremental costs of \$2,761,000. These amounts are included in casualty and impairment loss (gain), net on the accompanying Consolidated Statements of Comprehensive Income.

A casualty loss may also result in lost operating income from one or more communities that is covered by the Company's business interruption insurance policies. The Company recognizes income for amounts received under its business interruption insurance policies as a component of rental and other income in the Consolidated Statements of Comprehensive Income. Revenue is recognized upon resolution of all contingencies related to the receipt, typically upon written confirmation by the insurer or receipt of the actual proceeds. The Company recognized \$26,000, \$3,498,000 and \$20,564,000 in income related business interruption insurance proceeds for the years ended December 31, 2018, 2017 and 2016, respectively.

#### *Assets Held for Sale and Discontinued Operations*

The Company presents the assets and liabilities of any communities which have been sold, or otherwise qualify as held for sale, separately in the Consolidated Balance Sheets. In addition, the results of operations for those assets that meet the definition of discontinued operations are presented as such in the accompanying Consolidated Statements of Comprehensive Income. Real estate assets held for sale are measured at the lower of the carrying amount or the fair value less the cost to sell. Both the real estate assets and corresponding liabilities are presented separately in the accompanying Consolidated Balance Sheets. Upon the classification of an asset as held for sale, no further depreciation is recorded. Disposals representing a strategic shift in operations (e.g., a disposal of a major geographic area, a major line of business or a major equity method investment) will be presented as discontinued operations, and for those assets qualifying for classification as discontinued operations, the specific components of net income presented as discontinued operations include net operating income, depreciation expense and interest expense, net. For periods prior to the asset qualifying for discontinued operations, the Company reclassifies the results of operations to discontinued operations. In addition, the net gain or loss (including any impairment loss) on the eventual disposal of assets held for sale will be presented as discontinued operations when recognized. A change in presentation for held for sale or discontinued operations has no impact on the Company's financial condition or results of operations. The Company combines the operating, investing and financing portions of cash flows attributable to discontinued operations with the respective cash flows from continuing operations on the accompanying Consolidated Statements of Cash Flows. The Company had one wholly-owned operating community and two ancillary land parcels that qualified as held for sale presentation at December 31, 2018.

#### *Redeemable Noncontrolling Interests*

Redeemable noncontrolling interests are comprised of potential future obligations of the Company, which allow the investors holding the noncontrolling interest to require the Company to purchase their interest. The Company classifies obligations under the redeemable noncontrolling interests at fair value, with a corresponding offset for changes in the fair value recorded in accumulated earnings less dividends. Reductions in fair value are recorded only to the extent that the Company has previously recorded increases in fair value above the redeemable noncontrolling interest's initial basis. The redeemable noncontrolling interests are presented outside of permanent equity as settlement in shares of the Company's common stock, where permitted, may not be within the Company's control. The nature and valuation of the Company's redeemable noncontrolling interests are discussed further in Note 11, "Fair Value."

#### *Derivative Instruments and Hedging Activities*

The Company enters into interest rate swap and interest rate cap agreements (collectively, "Hedging Derivatives") for interest rate risk management purposes and in conjunction with certain variable rate secured debt to satisfy lender requirements. The Company does not enter into Hedging Derivative transactions for trading or other speculative purposes. The Company assesses the effectiveness of qualifying cash flow and fair value hedges, both at inception and on an on-going basis. Hedge ineffectiveness is reported as a component of interest expense, net. The fair values of Hedging Derivatives that are in an asset position are recorded in prepaid expenses and other assets. The fair value of Hedging Derivatives that are in a liability position are included in accrued expenses and other liabilities. The Company does not present or disclose the fair value of Hedging Derivatives on a net basis. Fair value changes for derivatives that are not in qualifying hedge relationships are reported as a component of interest expense, net. For the Hedging Derivative positions that the Company has determined qualify as effective cash flow hedges, the Company has recorded the cumulative changes in the fair value of Hedging Derivatives in other comprehensive loss. Amounts recorded in accumulated other comprehensive loss will be reclassified into earnings in the periods in which earnings are affected by the hedged cash flow. The effective portion of the change in fair value of the Hedging Derivatives that the Company has determined qualified

as effective fair value hedges is reported as an adjustment to the carrying amount of the corresponding debt being hedged. See Note 11, "Fair Value," for further discussion of derivative financial instruments.

#### Use of Estimates

The preparation of financial statements in conformity with GAAP requires management to make certain estimates and assumptions. These estimates and assumptions affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the dates of the financial statements and the reported amounts of revenue and expenses during the reporting periods. Actual results could differ from those estimates.

#### Reclassifications

Certain reclassifications have been made to amounts in prior years' notes to financial statements to conform to current year presentations as a result of changes in held for sale classification, disposition activity and segment classification.

#### Recently Issued and Adopted Accounting Standards

In August 2017, the FASB issued ASU 2017-12, Derivatives and Hedging (Topic 815): Targeted Improvements to Accounting for Hedging Activities. This ASU expands hedge accounting for both nonfinancial and financial risk components and aligns the recognition and presentation of the effects of the hedging instrument and the hedged item in the financial statements. This update also simplifies the application of hedge accounting guidance and eases the administrative burden of hedge documentation requirements and assessing hedge effectiveness. The Company adopted the guidance as of January 1, 2018 and it did not have a material effect on the Company's financial position or results of operations.

In February 2017, the FASB issued ASU 2017-05, Other Income-Gains and Losses from the Derecognition of Nonfinancial Assets (Subtopic 610-20): Clarifying the Scope of Asset Derecognition Guidance and Accounting for Partial Sales of Nonfinancial Assets. This ASU (i) clarifies the scope of the nonfinancial asset guidance and the derecognition of certain businesses and nonprofit activities, (ii) eliminates the exception in the financial asset guidance for transfers of investments (including equity method investments) in real estate entities and supersedes the guidance in the Exchanges of a Nonfinancial Asset for a Noncontrolling Ownership Interest and (iii) provides guidance on the accounting of partial sales of nonfinancial assets and contributions of nonfinancial assets to a joint venture or other noncontrolled investee. The Company adopted the new standard as of January 1, 2018 using the modified retrospective approach, applying the provisions to open contracts as of the date of adoption. See "Revenue and Gain Recognition" above for additional discussion of the impact of adopting the guidance.

In February 2016, the FASB issued ASU 2016-02, Leases, amending the existing accounting standards for lease accounting, including requiring lessees to recognize most leases on their balance sheets and making targeted changes to lessor accounting. The guidance will be effective in the first quarter of 2019 and allows for early adoption. The new standard requires a modified retrospective transition approach for all leases existing at the date of initial application, with an option to use certain transition relief. ASU 2016-02 provides for transition relief, which includes electing to not (i) reassess whether any expired or existing contract is a lease or contains a lease, (ii) reassess the lease classification of any expired or existing leases and (iii) expense any capitalized initial direct costs for any existing leases. Subsequently, the FASB issued ASU 2018-01, ASU 2018-11 and ASU 2018-20 which provides further transition relief by providing (i) an option to not evaluate land easements that exist or have expired prior to the date of adoption under ASC 842, (ii) prospective adoption as a transition method, (iii) a practical expedient for lessors to not separate lease and non-lease components by class of underlying asset when certain conditions are met and (iv) technical improvements for lessor accounting for sales taxes collected from lessees and certain lessor costs.

The Company adopted ASC 842 as of January 1, 2019 using the prospective adoption method, and plans to apply certain practical expedients allowed under the standard including:

- not reassessing (i) whether any expired or existing contracts are or contain leases, (ii) the lease classification for any expired or existing leases, and (iii) the accounting for initial direct costs for any existing leases;
- not evaluating short term leases;
- not assessing whether existing land easements are, or contain leases; and
- making an accounting policy election by class of underlying asset, to not separate non-lease components from lease components and instead to account for each separate lease and non- lease component as a single lease component.

The Company anticipates adoption of the standard will result in the recognition of incremental right of use assets and corresponding lease liabilities to its balance sheet upon adoption of the new standard in the range from \$100,000,000 to \$150,000,000 resulting from the recognition of its long-term ground and administrative office leases, currently accounted for as operating leases. The Company is finalizing its adoption of the new standard and will report finalized impacts in the Company's first quarter 2019 Form 10-Q filing.

In May 2014, the FASB issued ASU 2014-09, Revenue from Contracts with Customers and in August 2015, the FASB issued ASU 2015-14, Revenue from Contracts with Customers-Deferral of the Effective Date, which defers the effective date of the new revenue recognition standard until the first quarter of 2018. Subsequently, the FASB has issued multiple ASUs clarifying ASU 2014-09 and ASU 2015-14. Under the new standard, revenue is recognized when persuasive evidence of an arrangement exists, delivery has occurred, the fee is fixed or determinable, and collectability is probable. Revenue is generally recognized net of allowances and any taxes collected from customers and subsequently remitted to governmental authorities. The majority of the Company's revenue is derived from rental income, which is scoped out from this standard and will be accounted for under ASU 2016-02, Leases, discussed above. The Company's other revenue streams, which are being evaluated under this ASU, include but are not limited to management fees, non-recurring rental and non-rental related income, and gains and losses from real estate dispositions. The Company adopted the new standard as of January 1, 2018 using the modified retrospective approach, applying the provisions to open contracts as of the date of adoption. See "Revenue and Gain Recognition" above for additional discussion of the impact of adopting the guidance.

#### 2. Interest Capitalized

The Company capitalizes interest during the development and redevelopment of real estate assets. Capitalized interest associated with the Company's development or redevelopment activities totaled \$60,331,000, \$64,420,000 and \$78,872,000 for years ended December 31, 2018, 2017 and 2016, respectively.

#### 3. Mortgage Notes Payable, Unsecured Notes and Credit Facility

The Company's mortgage notes payable, unsecured notes, variable rate unsecured term loans (the "Term Loans") and Credit Facility, as defined below, as of December 31, 2018 and 2017 are summarized below. The following amounts and discussion do not include the mortgage notes related to the communities classified as held for sale, if any, as of December 31, 2018 and 2017, as shown on the Consolidated Balance Sheets (dollars in thousands) (see Note 6, "Real Estate Disposition Activities").

	12/31/18	12/31/17
Fixed rate unsecured notes (1)	\$ 5,400,000	\$ 5,350,000
Variable rate unsecured notes (1)	300,000	300,000
Term Loans (1)	250,000	250,000
Fixed rate mortgage notes payable—conventional and tax-exempt (2)	533,215	593,987
Variable rate mortgage notes payable—conventional and tax-exempt (2)	619,140	910,326
Total mortgage notes payable and unsecured notes and Term Loans	7,102,355	7,404,313
Credit Facility	—	—
Total mortgage notes payable, unsecured notes, Term Loans and Credit Facility	\$ 7,102,355	\$ 7,404,313

(1) Balances at December 31, 2018 and 2017 exclude \$9,879 and \$10,850, respectively, of debt discount, and \$34,128 and \$36,386, respectively, of deferred financing costs, as reflected in unsecured notes, net on the accompanying Consolidated Balance Sheets.

(2) Balances at December 31, 2018 and 2017 exclude \$14,590 and \$16,351 of debt discount, respectively, and \$3,495 and \$11,256, respectively, of deferred financing costs, as reflected in mortgage notes payable, net on the accompanying Consolidated Balance Sheets.

The following debt activity occurred during the year ended December 31, 2018:

- In February 2018, the Company repaid \$15,174,000 principal amount of 6.60% fixed rate debt secured by Avalon Oaks West in advance of its scheduled maturity date, incurring a charge of \$426,000, consisting of a prepayment penalty of \$152,000 and the non-cash write-off of unamortized deferred financing costs of \$274,000.
- In February 2018, the Company repaid \$11,038,000 principal amount of 4.61% fixed rate debt secured by AVA Pasadena at par in advance of its scheduled maturity date.



- In March 2018, the Company issued \$300,000,000 principal amount of unsecured notes in a public offering under its existing shelf registration statement for net proceeds of approximately \$296,210,000. The notes mature in April 2048 and were issued at a 4.35% interest rate. The effective interest rate of the notes for the first 10 years is 3.97%, including the impact of an interest rate hedge and offering costs, and for the remainder of the term the effective interest rate is 4.39%.
- In April 2018, the Company repaid \$13,380,000 principal amount of 3.06% fixed rate debt secured by Avalon Andover at par at its scheduled maturity date.
- In June 2018, the Company repaid \$15,295,000 principal amount of 6.90% fixed rate debt secured by Avalon Orchards in advance of its scheduled maturity date, incurring a charge of \$635,000, consisting of a prepayment penalty of \$282,000 and the non-cash write-off of unamortized deferred financing costs of \$353,000.
- In August 2018, the Company repaid \$95,859,000 aggregate principal amount of variable rate debt secured by Avalon Calabasas, of which \$51,449,000 was repaid at par at its scheduled maturity date, and \$44,410,000 was repaid at par in advance of its April 2028 maturity date. The Company recognized a non-cash charge of \$1,690,000 for the write-off of unamortized debt discount.
- In December 2018, the Company repaid \$250,000,000 principal amount of its 6.10% unsecured notes in advance of its March 2020 scheduled maturity, recognizing a charge of \$8,926,000, consisting of a prepayment penalty of \$8,579,000 and a non-cash write-off of deferred financing costs of \$347,000.
- In December 2018, in conjunction with the formation of the NYC Joint Venture as discussed in Note 5, "Investments in Real Estate Entities," the following financing activities took place:
  - The Company repaid \$93,800,000 of variable rate debt secured by Avalon Bowery Place I in advance of its November 2037 maturity date. In conjunction with the repayment, the Company recognized a charge of \$5,837,000, consisting of a prepayment penalty of \$2,874,000 and the non-cash write-off of unamortized deferred financing costs of \$2,963,000.
  - The Company entered into a \$93,800,000 fixed rate note secured by Avalon Bowery Place I, with a contractual interest rate of 4.01%, maturing in January 2029.
  - The Company entered into a \$39,639,000 fixed rate note secured by Avalon Bowery Place II, with a contractual interest rate of 4.01%, maturing in January 2029.
  - The Company entered into a \$12,500,000 fixed rate note secured by Avalon Morningside Park, with a contractual interest rate of 3.95%, maturing in January 2029.
  - The Company entered into a \$150,000,000 fixed rate note secured by Avalon West Chelsea and AVA High Line, a dual-branded community, with a contractual interest rate of 4.01%, maturing in January 2029.
  - The NYC Joint Venture then assumed the aggregate \$295,939,000 of new borrowings discussed above, as well as the previously outstanding \$100,000,000 fixed rate note secured by Avalon Morningside Park with a contractual interest rate of 3.50%.

At December 31, 2018, the Company has a \$1,500,000,000 revolving variable rate unsecured credit facility with a syndicate of banks (the "Credit Facility") which matures in April 2020. The Company may extend the maturity for up to nine months, provided the Company is not in default and upon payment of a \$1,500,000 extension fee. The Credit Facility bears interest at varying levels based on the London Interbank Offered Rate ("LIBOR"), rating levels achieved on the Company's unsecured notes and on a maturity schedule selected by the Company. The current stated pricing is LIBOR plus 0.825% per annum (3.33% at December 31, 2018), assuming a one month borrowing rate. The annual facility fee is 0.125% (or approximately \$1,875,000 annually based on the \$1,500,000,000 facility size and based on the Company's current credit rating).

The Company had no borrowings outstanding under the Credit Facility and had \$39,810,000 and \$47,315,000 outstanding in letters of credit that reduced the borrowing capacity as of December 31, 2018 and 2017, respectively.

In the aggregate, secured notes payable mature at various dates from April 2019 through July 2066, and are secured by certain apartment communities (with a net carrying value of \$1,827,953,000, excluding communities classified as held for sale, as of December 31, 2018).

The weighted average interest rate of the Company's fixed rate secured notes payable (conventional and tax-exempt) was 3.8% and 4.0% at December 31, 2018 and 2017, respectively. The weighted average interest rate of the Company's variable rate secured notes payable (conventional and tax exempt), the Term Loans and its Credit Facility, including the effect of certain financing related fees, was 3.4% and 3.2% at December 31, 2018 and 2017, respectively.

Scheduled payments and maturities of secured notes payable and unsecured notes outstanding at December 31, 2018 are as follows (dollars in thousands):

Year	Secured notes payments	Secured notes maturities	Unsecured notes maturities	Stated interest rate of unsecured notes
2019	3,824	114,722	—	N/A
2020	2,682	140,430	400,000	3.625%
2021	2,204	27,844	250,000	3.950%
			300,000	LIBOR + 0.43%
2022	2,318	—	450,000	2.950%
			100,000	LIBOR + .90%
2023	2,439	—	350,000	4.200%
			250,000	2.850%
2024	2,577	—	300,000	3.500%
			150,000	LIBOR + 1.50%
2025	2,708	84,835	525,000	3.450%
			300,000	3.500%
2026	2,845	—	475,000	2.950%
			300,000	2.900%
2027	2,270	185,100	400,000	3.350%
2028	912	—	450,000	3.200%
Thereafter	30,296	544,349	350,000	3.900%
			300,000	4.150%
			300,000	4.350%
	<u>\$ 55,075</u>	<u>\$ 1,097,280</u>	<u>\$ 5,950,000</u>	

The Company's unsecured notes are redeemable at the Company's option, in whole or in part, generally at a redemption price equal to the greater of (i) 100% of their principal amount or (ii) the sum of the present value of the remaining scheduled payments of principal and interest discounted at a rate equal to the yield on U.S. Treasury securities with a comparable maturity plus a spread between 20 and 45 basis points depending on the specific series of unsecured notes, plus accrued and unpaid interest to the redemption date. The indenture under which the Company's unsecured notes were issued, the Company's Credit Facility agreement and the Company's Term Loan agreement contain limitations on the amount of debt the Company can incur or the amount of assets that can be used to secure other financing transactions, and other customary financial and other covenants, with which the Company was in compliance at December 31, 2018.

#### 4. Equity

As of December 31, 2018 and 2017, the Company's charter had authorized for issuance a total of 280,000,000 shares of common stock and 50,000,000 shares of preferred stock.

During the year ended December 31, 2018, the Company:

- i. issued 40,534 shares of common stock in connection with stock options exercised;
- ii. issued 2,272 common shares through the Company's dividend reinvestment plan;
- iii. issued 187,010 common shares in connection with restricted stock grants and the conversion of performance awards to restricted shares;
- iv. issued 244,924 shares under CEP IV, as discussed below;
- v. withheld 68,565 common shares to satisfy employees' tax withholding and other liabilities;
- vi. issued 12,955 shares through the Employee Stock Purchase Plan; and
- vii. canceled 4,860 shares of restricted stock upon forfeiture.

Any deferred compensation related to the Company's stock option, restricted stock and performance award grants during the year ended December 31, 2018 is not reflected on the accompanying Consolidated Balance Sheet as of December 31, 2018, and will not be reflected until recognized as compensation cost.

In December 2015, the Company commenced a fourth continuous equity program ("CEP IV") under which the Company may sell (and/or enter into forward agreements for) up to \$1,000,000,000 of its common stock from time to time. Actual sales will depend on a variety of factors to be determined by the Company, including market conditions, the trading price of the Company's common stock and determinations by the Company of the appropriate sources of funding for the Company. In conjunction with CEP IV, the Company engaged sales agents who will receive compensation of up to 2.0% of the gross sales price for shares sold. The Company expects that, if entered into, it will physically settle each forward sale agreement on one or more dates specified by the Company on or prior to the maturity date of that particular forward sale agreement, in which case the Company will expect to receive aggregate net cash proceeds at settlement equal to the number of shares underlying the particular forward agreement multiplied by the relevant forward sale price. However, the Company may also elect to cash settle or net share settle a forward sale agreement. In connection with each forward sale agreement, the Company will pay the relevant forward seller, in the form of a reduced initial forward sale price, commission of up to 2.0% of the sales prices of all borrowed shares of common stock sold. As of December 31, 2018, there are no outstanding forward sales agreements. In 2018, the Company sold 244,924 shares at an average sales price of \$189.14 per share, for net proceeds of \$45,629,000. As of December 31, 2018, the Company had \$846,591,000 of shares remaining authorized for issuance under this program.

#### 5. Investments in Real Estate Entities

##### *Investments in Unconsolidated Real Estate Entities*

The Company accounts for its investments in unconsolidated real estate entities under the equity method of accounting, as discussed in Note 1, "Organization, Basis of Presentation and Significant Accounting Policies," under *Principles of Consolidation*. The significant accounting policies of the Company's unconsolidated real estate entities are consistent with those of the Company in all material respects.

As of December 31, 2018, the Company had investments in the following real estate entities:

- *Archstone Multifamily Partners AC LP (the "U.S. Fund")*—The U.S. Fund was formed in July 2011 and is fully invested. The U.S. Fund has a term that expires in July 2023, assuming the exercise of two, one-year extension options. The U.S. Fund had six institutional investors, including the Company. The Company is the general partner of the U.S. Fund and, at December 31, 2018 excluding costs incurred in excess of equity in the underlying net assets of the U.S. Fund, the Company had an equity investment of \$31,194,000 (net of distributions), representing a 28.6% combined general partner and limited partner equity interest. The Company acquired its interest in the U.S. Fund as part of the Archstone Acquisition.

During 2018, the U.S. Fund sold Avalon Kirkland at Carillon, located in Kirkland, WA, containing 131 apartment homes for \$85,500,000. The Company's proportionate share of the gain in accordance with GAAP was \$8,636,000. In conjunction with the disposition of this community, the U.S. Fund repaid \$27,928,000 of related secured indebtedness in advance of its scheduled maturity date.

Subsidiaries of the U.S. Fund have five loans secured by individual assets with aggregate amounts outstanding of \$205,846,000, with maturity dates that vary from June 2020 to November 2022. The mortgage loans are payable by the subsidiaries of the U.S. Fund with operating cash flow or disposition proceeds from the underlying real estate. The Company has not guaranteed the debt of the U.S. Fund, nor does the Company have any obligation to fund this debt should the U.S. Fund be unable to do so.

- *Multifamily Partners AC JV LP (the "AC JV")*—The AC JV is a joint venture that was formed in 2011 and has four institutional investors, including the Company. Excluding costs incurred in excess of equity in the underlying net assets of the AC JV, at December 31, 2018 the Company had an equity investment of \$34,799,000 (net of distributions), representing a 20.0% equity interest. The Company acquired its interest in the AC JV as part of the Archstone Acquisition.

The AC JV partnership agreement contains provisions that require the Company to provide a right of first offer ("ROFO") to the AC JV in connection with additional opportunities to acquire or develop additional interests in multifamily real estate assets within a specified geographic radius of the existing assets, generally one mile or less. The ROFO restriction expires in 2019.

During 2018, the AC JV sold Avalon Woodland Park, located in Herndon, VA, containing 392 apartment homes for \$94,250,000. The Company's proportionate share of the gain in accordance with GAAP was \$2,019,000. In conjunction with the disposition of this community, the AC JV repaid a \$50,647,000 loan at par to the equity investors in the venture in advance of its scheduled maturity date.

As of December 31, 2018, subsidiaries of the AC JV had one unsecured loan outstanding in the amount of \$111,653,000 which matures in August 2021, and which was made by the equity investors in the venture, including the Company, in proportion to the investors' respective equity ownership interest. The unsecured loan is payable by the subsidiaries of the AC JV with operating cash flow from the venture. The Company has not guaranteed the debt of the AC JV, nor does the Company have any obligation to fund this debt should the AC JV be unable to do so.

- *MVP I, LLC*—In December 2004, the Company entered into a joint venture agreement with an unrelated third-party for the development of Avalon at Mission Bay II. Construction of Avalon at Mission Bay II, a 313 apartment-home community located in San Francisco, California, was completed in December 2006. The Company holds a 25.0% equity interest in the venture. The Company is responsible for the day-to-day operations of the community and is the management agent subject to the terms of a management agreement. The Company has not guaranteed the debt of MVP I, LLC, nor does the Company have any obligation to fund this debt should MVP I, LLC be unable to do so.
- *Brandywine Apartments of Maryland, LLC ("Brandywine")*—Brandywine owns a 305 apartment home community located in Washington, D.C. The community is managed by a third party. Brandywine is comprised of five members who hold various interests in the joint venture. The Company holds a 28.7% equity interest in Brandywine.

Brandywine had an outstanding \$22,195,000 fixed rate mortgage loan that is payable by the venture. The Company has not guaranteed the debt of Brandywine, nor does the Company have any obligation to fund this debt should Brandywine be unable to do so.

- *Residual JV*—Through subsidiaries, the Company and Equity Residential entered into three limited liability company agreements (collectively, the "Residual JV") through which the Company and Equity Residential acquired (i) certain assets of Archstone that the Company and Equity Residential have divested (the "Residual Assets"), and (ii) various liabilities of Archstone that the Company and Equity Residential agreed to assume in conjunction with the Archstone Acquisition (the "Residual Liabilities").

The Residual Liabilities include most existing or future litigation and claims related to Archstone's operations for periods before the close of the Archstone Acquisition, except for (i) claims that principally relate to the physical condition of the assets acquired directly by the Company or Equity Residential, which generally remain the sole responsibility of the Company or Equity Residential, as applicable, and (ii) certain tax and other litigation between Archstone and various equity holders in Archstone related to periods before the close of the Archstone Acquisition, and claims which may arise due to changes in the capital structure of Archstone that occurred prior to closing, for which the seller has agreed to indemnify the Company and Equity Residential. The Company and Equity Residential jointly control the Residual JV and the Company holds a 40.0% economic interest in the Residual JV. The Company believes its remaining potential obligations under the Residual JV will not have a material impact on its financial position or results of operations.

- *Legacy JV*—As part of the Archstone Acquisition the Company entered into a limited liability company agreement with Equity Residential, through which it assumed obligations of Archstone in the form of preferred interests, some of which are governed by tax protection arrangements (the “Legacy JV”). The Company has a 40.0% interest in the Legacy JV. During the years ended December 31, 2018, 2017 and 2016, the Legacy JV redeemed certain of the preferred interests and paid accrued dividends, of which the Company's portion was \$1,120,000, \$2,000,000 and \$1,960,000, respectively. At December 31, 2018, the remaining preferred interests had an aggregate liquidation value of \$36,806,000, the Company's 40.0% share of which was included in accrued expenses and other liabilities in the accompanying Consolidated Balance Sheets.
- *Sudbury Development, LLC*—During 2015, the Company entered into a joint venture agreement to purchase land and pursue entitlements and pre-development activity for a mixed-use development project in Sudbury, MA, including multifamily apartment homes, retail, senior housing and age-restricted housing. The Company has a 60.0% ownership interest in the venture. The venture is considered a VIE, though the Company is not considered to be the primary beneficiary because the Company and its third party partner share control of the joint venture as approval from both parties is required for all significant aspects of the venture's activities including, but not limited to, changes in the ownership or capital structure of the partnership, acquisitions or dispositions by the venture and decisions about the pre-development and related activities to be performed by the venture. During the year ended December 31, 2017, the Company and its venture partner each acquired their respective portion of the real estate held by the venture, with the Company's portion consisting of a parcel of land for the development of an apartment community, acquired for an investment of \$19,200,000. The Company and its venture partner retained continuing involvement with the venture to fund the completion of the planned infrastructure and site work, which was substantially complete at December 31, 2018.
- *North Point II JV, LP*—During 2016, the Company entered into a joint venture to develop, own, and operate AVA North Point, an apartment community located in Cambridge, MA, which completed construction during 2018 and contains 265 apartment homes. The Company owns a 55.0% interest in the venture, and the venture partner owns the remaining 45.0% interest. The venture is considered to be a VIE, though the Company is not considered to be the primary beneficiary because the Company and its third party partner share control of the venture. The Company and its venture partner share decision making authority for all significant aspects of the venture's activities including, but not limited to, changes in the ownership or capital structure, the original capital budget to construct AVA North Point and the operating budget for the community since completion. AVA North Point is the third phase of a master planned development, the other phases of which are owned through the AC JV. During 2016, the Company provided the partners of the AC JV the opportunity to acquire the AVA North Point land parcel owned by the Company as required in the ROFO provisions for the AC JV. After certain partners of the AC JV declined to participate, the Company entered into the new joint venture and sold the land parcel to the venture in exchange for a cash payment and a capital account credit, and is overseeing the development in exchange for a developer fee. Upon sale of the land parcel, the Company recognized a gain of \$10,621,000 during the year ended December 31, 2016, included in gain (loss) on other real estate transactions, net on the accompanying Consolidated Statements of Comprehensive Income. At December 31, 2018, the Company had an equity investment of \$45,162,000.

- *NYTA MF Investors LLC (“NYC Joint Venture”)*—During 2018, the Company contributed five wholly-owned operating communities located in New York, NY to a newly formed joint venture with the intent to own and operate the communities. The Company retained a 20.0% interest in the venture, with the venture partner owning the remaining 80.0% interest, and the partners sharing in returns in accordance with their ownership interests. The venture is not considered a VIE and is accounted for as an equity method investment, as the venture can finance its activities through the on-going operations of the communities and the Company and its third party partner share a controlling financial interest in the joint venture. While the Company is the managing member and the venture partner has a controlling financial interest, approval from both parties is required for all significant aspects of the venture's activities including, but not limited to, changes in the ownership or capital structure of the partnership, acquisitions or dispositions by the venture and decisions about the annual operating budget and redevelopment related activities to be performed by the venture.

In conjunction with the formation of the venture, the Company sold the five communities, containing an aggregate of 1,301 apartment homes and 58,000 square feet of retail space, to the venture for a sales price of \$758,900,000. The Company received net cash proceeds of \$276,799,000 and the venture assumed \$395,939,000 of secured indebtedness from the Company. The Company recognized a gain on sale of \$179,861,000, including the recognition of the Company's 20.0% retained interest at fair value. In conjunction with the formation of the venture, the Company entered into the refinancing and borrowing activities discussed in Note 3, “Mortgage Notes Payable, Unsecured Notes and Credit Facility.” At December 31, 2018, the Company had an equity investment of \$75,000,000, representing a 20.0% equity interest in the venture.

In addition, during 2018 the Company held an investment in and received the final distributions for the AvalonBay Value Added Fund II, L.P. (“Fund II”). In September 2008, the Company formed Fund II, a private, discretionary real estate investment vehicle which acquired and operated communities in the Company's markets. During 2017, Fund II sold its final three communities, and the Company completed the dissolution of Fund II in 2018. Fund II had six institutional investors, including the Company. One of the Company's wholly owned subsidiaries was the general partner of Fund II. The Company had an equity interest of 31.3% in Fund II, and upon achievement of a threshold return the Company had a right to incentive distributions for its promoted interest based on current returns earned by Fund II which represented 40.0% of further Fund II distributions, which was in addition to its proportionate share of the remaining 60.0% of distributions. During the year ended December 31, 2018, the Company recognized income of \$925,000 for its promoted interest, which was reported as a component of equity in income of unconsolidated real estate entities on the accompanying Consolidated Statements of Comprehensive Income.

The following is a combined summary of the financial position of the entities accounted for using the equity method as of the dates presented, excluding amounts associated with development joint ventures, the Residual JV and Legacy JV (dollars in thousands):

	12/31/18	12/31/17
<b>Assets:</b>		
Real estate, net	\$ 1,420,039	\$ 695,077
Other assets	45,142	39,976
Total assets	<u>\$ 1,465,181</u>	<u>\$ 735,053</u>
<b>Liabilities and partners' capital:</b>		
Mortgage notes payable, net and credit facility	\$ 837,311	\$ 523,815
Other liabilities	15,624	10,540
Partners' capital	612,246	200,698
Total liabilities and partners' capital	<u>\$ 1,465,181</u>	<u>\$ 735,053</u>

The following is a combined summary of the operating results of the entities accounted for using the equity method, for the years presented, excluding amounts associated with development joint ventures, Avalon Clarendon, the Residual JV and Legacy JV (dollars in thousands):

	For the year ended		
	12/31/18 (1)	12/31/17	12/31/16
Rental and other income	\$ 92,504	\$ 101,615	\$ 131,901
Operating and other expenses	(35,005)	(38,566)	(50,945)
Gain on sale of communities	54,202	136,333	196,749
Interest expense, net (2)	(22,488)	(27,104)	(45,886)
Depreciation expense	(26,706)	(25,914)	(34,471)
Net income	\$ 62,507	\$ 146,364	\$ 197,348

(1) Amounts include results from the NYC Joint Venture from the date the venture was formed.

(2) Amounts for the years ended December 31, 2018, 2017 and 2016 includes charges for prepayment penalties and write-offs of deferred financing costs of \$312, \$1,591 and \$12,659, respectively.

In conjunction with the acquisition of the U.S. Fund, AC JV and Brandywine, the Company incurred costs in excess of its equity in the underlying net assets of the respective investments. These costs represent \$31,188,000 and \$35,402,000 at December 31, 2018 and 2017, respectively, of the respective investment balances. These amounts are being amortized over the lives of the underlying assets as a component of equity in income of unconsolidated real estate entities on the accompanying Consolidated Statements of Comprehensive Income.

The following is a summary of the Company's equity in income of unconsolidated real estate entities for the years presented (dollars in thousands):

	For the year ended		
	12/31/18	12/31/17	12/31/16
Fund I (1)	\$ —	\$ —	\$ 87
Fund II (2)	843	53,961	49,882
U.S. Fund (3)	9,766	14,773	15,635
AC JV (4)	3,527	1,388	1,445
MVP I, LLC	1,917	1,833	1,627
Brandywine	95	106	10
CVP I, LLC	—	—	9
Residual JV	(879)	(1,223)	(1,374)
Avalon Clarendon (5)	—	—	(2,359)
North Point II JV, LP	305	(122)	—
Sudbury Development, LLC	29	28	—
NYC JV	(333)	—	—
Total	\$ 15,270	\$ 70,744	\$ 64,962

(1) The Company's equity in income for this entity represents its residual profits from the sale of the community, or liquidation of the venture.

(2) Equity in income for the years ended December 31, 2017 and 2016 includes the Company's proportionate share of the gain on the sale of Fund II assets of \$26,322 and \$41,501, respectively. In addition, equity in income for the years ended December 31, 2018, 2017 and 2016 include \$925, \$26,472 and \$7,985, respectively, relating to the Company's recognition of its promoted interest.

(3) Equity in income for the years ended December 31, 2018, 2017 and 2016 includes the Company's proportionate share of the gain on the sale of U.S. Fund assets of \$8,636, \$13,788 and \$16,568, respectively.

(4) Equity in income for the year ended December 31, 2018 includes the Company's proportionate share of the gain on the sale of an AC JV assets of \$2,019.

(5) In 2016, the Company and its venture partner established separate legal ownership of Avalon Clarendon, after which the Company reported the operating results of Avalon Clarendon as part of its consolidated operations.

#### Investments in Consolidated Real Estate Entities

During the year ended December 31, 2018, the Company acquired four consolidated communities:

- Avalon Arundel Crossing, located in Linthicum Heights, MD, contains 310 apartment homes and was acquired for a purchase price of \$83,000,000.
- Alexander Apartments & Lofts, located in West Palm Beach, FL, contains 290 apartment homes and 2,000 square feet of retail space and was acquired for a purchase price of \$103,000,000.
- Ironwood at Red Rocks, located in Littleton, CO, contains 256 apartment homes and was acquired for a purchase price of \$75,400,000.
- The Meadows, located in Castle Rock, CO, contains 240 apartment homes and was acquired for a purchase price of \$73,050,000.

The Company accounted for these as asset acquisitions and recorded the acquired assets and assumed liabilities, including identifiable intangibles, at their relative fair values based on the purchase price and acquisition costs incurred. The Company used third party pricing or internal models for the values of the land, a valuation model for the values of the buildings, and an internal model to determine the fair values of the remaining real estate assets and in-place leases. Given the heterogeneous nature of multifamily real estate, the fair values for the land, debt, real estate assets and in-place leases incorporated significant unobservable inputs and therefore are considered to be Level 3 prices within the fair value hierarchy.

Expensed transaction costs associated with the acquisitions made by the Company in 2016, all of which were accounted for as business combinations prior to the adoption of ASU 2017-01 on October 1, 2016, totaled \$5,139,000. This amount was reported as a component of expensed acquisition, development and other pursuit costs, net of recoveries on the accompanying Consolidated Statements of Comprehensive Income. To the extent the Company received amounts related to acquired communities for periods prior to their acquisition, the Company reported the receipts, net with expensed acquisition costs.

On February 27, 2013, pursuant to an asset purchase agreement dated November 26, 2012, the Company, together with Equity Residential, acquired, directly or indirectly, all of the assets owned by Archstone Enterprise LP ("Archstone," which has since changed its name to Jupiter Enterprise LP), including all of the ownership interests in joint ventures and other entities owned by Archstone, and assumed Archstone's liabilities, both known and unknown, with certain limited exceptions. Under the terms of the purchase agreement, the Company acquired approximately 40.0% of Archstone's assets and liabilities and Equity Residential acquired approximately 60.0% of Archstone's assets and liabilities (the "Archstone Acquisition").

In conjunction with the development of Avalon Brooklyn Bay, the Company entered into a joint venture agreement to construct a mixed-use building that contains rental apartments, for-sale residential condominium units and related common elements. The Company owns a 70.0% interest in the venture, which represents a 100% interest in the rental apartments, and the venture partner owns the remaining 30.0% interest, which represents a 100% interest in the for-sale residential condominium units. The Company was responsible for the development and construction of the structure, and provided a loan to the venture partner for the venture partner's share of costs. The venture is considered a VIE, and the Company consolidates its interest in the rental apartments and common areas, which are included in total real estate, net on the accompanying Consolidated Balance Sheets. The development of Avalon Brooklyn Bay was completed during the year ended December 31, 2018. As of December 31, 2018, the Company has a receivable from the venture partner in the form of a variable rate mortgage note, secured by the remaining for-sale residential condominium units. The balance as of December 31, 2018 was \$12,819,000, representing outstanding principal and interest, net of repayments, and as of December 31, 2017, was \$44,831,000, representing outstanding principal and interest. These amounts are reported as a component of prepaid expenses and other assets on the accompanying Consolidated Balance Sheets. The Company recognizes interest income on the accrual basis.

## 6. Real Estate Disposition Activities

The following activity took place during the year ended December 31, 2018:

- The Company sold eight wholly-owned operating communities, containing an aggregate of 1,798 apartment homes for an aggregate sales price of \$618,750,000 and an aggregate gain of \$195,115,000.
- The Company contributed five wholly-owned operating communities to the NYC Joint Venture for a sales price of \$758,900,000, recognizing a gain on sale of \$179,861,000. See Note 5, "Investments in Real Estate Entities," for additional discussion of the venture.
- The Company sold other real estate for an aggregate sales price of \$639,000, resulting in an aggregate gain of \$345,000.

Details regarding the real estate sales are summarized in the following table (dollars in thousands):

Community Name	Location	Period of sale	Apartment homes	Debt	Gross sales price	Net cash proceeds
Avalon Blue Hills/Avalon Canton at Blue Hills	Randolph/Canton, MA	Q218	472	\$ —	\$ 131,250	\$ 129,466
Eaves North Quincy	Quincy, MA	Q218	224	—	64,250	63,302
Avalon Anaheim Stadium	Anaheim, CA	Q218	251	—	111,600	105,495
Avalon Ballston Place	Arlington, VA	Q318	383	—	169,000	166,921
Avalon at Fairway Hills - Fields	Columbia, MD	Q418	192	—	39,500	38,744
Avalon Fashion Valley	San Diego, CA	Q418	161	—	70,750	69,781
Avalon Andover	Andover, MA	Q418	115	—	32,400	31,765
NYC Joint Venture (1)	New York, NY	Q418	1,301	395,939	758,900	276,799
Other real estate dispositions (2)	multiple	2018	N/A	—	639	1,040
Total of 2018 asset sales			3,099	\$ 395,939	\$ 1,378,289	\$ 883,313
Total of 2017 asset sales			1,624	\$ —	\$ 514,654	\$ 503,039
Total of 2016 asset sales			2,051	\$ —	\$ 564,028	\$ 532,717

- (1) The Company contributed five communities located in New York, NY, to the NYC Joint Venture, in which the Company retained a 20.0% ownership interest, as discussed in Note 5, "Investments in Real Estate Entities."
- (2) Primarily composed of the sale of one undeveloped land parcel, located in Fairfax City, VA.

As of December 31, 2018, the Company had one community and two ancillary land parcels that qualified as held for sale.

## 7. Commitments and Contingencies

### *Employment Agreements and Arrangements*

At December 31, 2018, the Company does not have any employment agreements with executive officers.

The standard restricted stock and option agreements used by the Company in its compensation program provide that upon an employee's termination without cause or the employee's Retirement (as defined in the agreement), all outstanding stock options and restricted shares of stock held by the employee will vest, and the employee will have up to 12 months or until the fifth anniversary of the grant date, if later, or until the option expiration date, if earlier, to exercise any options then held. Under the agreements, Retirement generally means a termination of employment and other business relationships, other than for cause, after attainment of age 50, provided that (i) the employee has worked for the Company for at least 10 years, (ii) the employee's age at Retirement plus years of employment with the Company equals at least 70, (iii) the employee provides at least six months written notice of intent to retire, and (iv) the employee enters into a one year non-compete and employee non-solicitation agreement.

The Company also has an Officer Severance Program (the "Program"). Under the Program, in the event an officer who is not otherwise covered by a severance arrangement is terminated (other than for cause), or chooses to terminate his or her employment for good reason (as defined), in either case within 18 months following a sale event (as defined) of the Company, such officer will generally receive a cash lump sum payment equal to a multiple of the officer's covered compensation (base salary plus annual cash bonus). The multiple is one time for vice presidents and senior vice presidents, two times for executive vice presidents and three times for the chief executive officer. The officer's restricted stock and options would also vest. Costs related to the Program are deferred and recognized over the requisite service period when considered by management to be probable and estimable.

### *Maplewood Casualty Loss*

In February 2017, a fire occurred at the Company's Avalon Maplewood, located in Maplewood, NJ, which at the time was under construction and not yet occupied. The Company completed reconstruction of the damaged and destroyed portions of the community as well as the vertical construction of the community in 2018. See Note 1, "Organization, Basis of Presentation and Significant Accounting Policies," for further discussion of the casualty gains and losses associated with the Maplewood casualty loss.

### *Edgewater Casualty Loss*

In conjunction with legal matters associated with the Edgewater casualty loss, the Company has established protocols for processing claims from third parties who suffered losses as a result of the fire, and many third parties have contacted the Company's insurance carrier and settled their claims. See Note 1, "Organization, Basis of Presentation and Significant Accounting Policies," for further discussion of the casualty gains and losses associated with the Edgewater casualty loss.

With regard to the building that was destroyed, three class action lawsuits have been filed against the Company and consolidated in the United States District Court for the District of New Jersey. The Company has agreed with class counsel to the terms of a settlement which provides a claims process (with agreed upon protocols for instructing the adjuster as to how to evaluate claims) and, if needed, an arbitration process to determine damage amounts to be paid to individual claimants covered by the class settlement. In July 2017, the District Court granted final approval of the settlement and all claims have been submitted to the independent claims adjuster. A total of 66 units (consisting of residents who did not previously settle their claims and who did not opt out of the class settlement) are included in the class action settlement and bound by its terms. However, only approximately 45 units submitted claims. The independent claims adjuster is currently reviewing the claims submitted; the submitted claims total approximately \$6,900,000 but, based on the Company's review of the initial determinations made by the adjuster on a number of claims, the Company believes that the total amount actually awarded will be significantly less. To date, the claims adjuster has completed its evaluation of 37 of these claims and it is expected that the evaluation of the remaining claims should be completed within the next month. In addition to the class action lawsuits described above, the Company has resolved litigated claims with tenants of approximately 60 units. There is currently one remaining resident lawsuit with respect to the destroyed building filed in the Superior Court of New Jersey, Bergen County - Law Division; the Company believes it has meritorious defenses to the extent of damages claimed in that suit. A number of subrogation lawsuits had been filed against the Company by insurers of Edgewater residents who obtained renters insurance; these lawsuits have been resolved or are expected to be resolved during the first quarter of 2019. A fourth class action, being heard in the same federal court, was filed against the Company on behalf of a purported class of residents of the second Edgewater building that suffered minimal damage.

Having settled many third party claims through the insurance claims process, while no assurances can be given, the Company currently believes that any potential remaining liability to third parties (including any potential liability to third parties determined in accordance with the class settlement described above) will not be material to the Company and will in any event be substantially covered by the Company's insurance policies.

The Company is involved in various other claims and/or administrative proceedings unrelated to the Edgewater casualty loss that arise in the ordinary course of its business. While no assurances can be given, the Company does not currently believe that any of these other outstanding litigation matters, individually or in the aggregate, will have a material adverse effect on its financial condition or results of operations.

### Lease Obligations

The Company owns 11 apartment communities, one community under development, and two commercial properties, located on land subject to land leases expiring between October 2026 and March 2142. All of the ground leases, except for one of the apartment communities, are accounted for as operating leases, recognizing rental expense on a straight-line basis over the lease term. These operating leases have varying escalation terms, primarily based on variables determined at future dates such as changes in the Consumer Price Index, and five of these leases have purchase options exercisable through 2095. The Company incurred costs of \$21,788,000, \$23,431,000 and \$23,343,000 in the years ended December 31, 2018, 2017 and 2016, respectively, related to operating leases. One apartment community is located on land subject to a land lease which is accounted for as a capital lease and has the option for the Company to purchase the land at some point during the lease term which expires in 2046. In addition to the leases described above, the Company is party to a lease for a portion of the parking garage adjacent to an apartment community, accounted for as a capital lease and subject to the Company's real estate accounting policies discussed in Note 1, "Organization, Basis of Presentation and Significant Accounting Policies." The Company has a total capital lease obligation of \$20,243,000 reported as a component of accrued expenses and other liabilities. In addition, the Company is party to 14 leases for its corporate and regional offices with varying terms through 2031, all of which are accounted for as operating leases.

During the year ended December 31, 2018, the Company contributed a dual-branded apartment community, Avalon West Chelsea and AVA High Line, located on land subject to a single land lease, to the newly formed NYC Joint Venture. See Note 5, "Investments in Real Estate Entities," for discussion of the formation of the venture. During the year ended December 31, 2017, the Company acquired the land encumbered by the ground lease for Avalon Morningside Park for \$95,000,000, recognizing a non-cash write-off of prepaid rent of \$11,153,000 associated with the ground lease termination, reported as a component of (loss) gain on other real estate transactions on the accompanying Consolidated Statements of Comprehensive Income. Also during the year ended December 31, 2017, the Company exercised its purchase option under a capital lease, acquiring the land encumbered by the ground lease for Avalon at Assembly Row and AVA Somerville for \$17,285,000.

The following table details the future minimum lease payments under the Company's current leases (dollars in thousands):

	Payments due by period					
	2019	2020	2021	2022	2023	Thereafter
Operating Lease Obligations	\$ 14,166	\$ 11,836	\$ 13,226	\$ 13,129	\$ 12,527	\$ 439,981
Capital Lease Obligations (1) (2)	1,075	1,077	1,080	1,082	1,084	41,220
	<u>\$ 15,241</u>	<u>\$ 12,913</u>	<u>\$ 14,306</u>	<u>\$ 14,211</u>	<u>\$ 13,611</u>	<u>\$ 481,201</u>

- (1) Aggregate capital lease payments include \$26,375 in interest costs, with the timing of certain lease payments for capital land leases determined by completion of the construction of the associated apartment community.
- (2) Capital lease assets of \$19,737 as of both December 31, 2018 and 2017, respectively, are included as a component of land and improvements or building and improvements on the accompanying Consolidated Balance Sheets.

### Legal Contingencies

The Company accounts for recoveries from legal matters as a reduction in the legal and related costs incurred associated with the matter, with recoveries in excess of these costs reported as a gain or, where appropriate, a reduction in the net cost basis of a community to which the suit related. During the years ended December 31, 2018, 2017 and 2016, the Company recognized \$946,000, \$6,118,000 and \$417,000 in legal recoveries, respectively. Amounts recognized during the years ended December 31, 2018 and 2017 include \$554,000 and \$5,438,000, respectively, in legal settlement proceeds relating to construction defects at communities acquired as part of the Archstone Acquisition, reported as a component of casualty and impairment loss (gain), net on the accompanying Consolidated Statements of Comprehensive Income.

### 8. Segment Reporting

The Company's reportable operating segments include Established Communities, Other Stabilized Communities and Development/Redevelopment Communities. Annually as of January 1, the Company determines which of its communities fall into each of these categories and generally maintains that classification throughout the year for the purpose of reporting segment operations, unless disposition or redevelopment plans regarding a community change.

- *Established Communities (also known as Same Store Communities)* are consolidated communities where the Company has a significant presence (New England, New York/New Jersey, Mid-Atlantic, Pacific Northwest, and Northern and Southern California) and where a comparison of operating results from the prior year to the current year is meaningful, as these communities were owned and had stabilized occupancy as of the beginning of the prior year. The Established Communities for the year ended December 31, 2018, are communities that are consolidated for financial reporting purposes, had stabilized occupancy as of January 1, 2017, are not conducting or planning to conduct substantial redevelopment activities and are not held for sale or planned for disposition within the fiscal year. A community is considered to have stabilized occupancy at the earlier of (i) attainment of 95% physical occupancy or (ii) the one-year anniversary of completion of development or redevelopment.
- *Other Stabilized Communities* includes all other completed consolidated communities that have stabilized occupancy, as defined above, as January 1, 2018, or which were acquired during the year ended December 31, 2018. Other Stabilized Communities includes stabilized operating communities in our expansion markets of Denver, Colorado, and Southeast Florida, but excludes communities that are conducting or planning to conduct substantial redevelopment activities within the fiscal year.
- *Development/Redevelopment Communities* consists of (i) consolidated communities that are either currently under construction, or were under construction during the fiscal year, which may be partially or fully complete and operating, (ii) consolidated communities where substantial redevelopment is in progress or is planned to begin during the fiscal year and (iii) communities under lease-up that have been complete for less than one year and have not reached stabilized occupancy, as defined above, as of January 1, 2018.

In addition, the Company owns land for future development and has other corporate assets that are not allocated to an operating segment.

The Company's segment disclosures present the measure(s) used by the chief operating decision maker for purposes of assessing each segment's performance. The Company's chief operating decision maker is comprised of several members of its executive management team who use net operating income ("NOI") as the primary financial measure for Established Communities and Other Stabilized Communities. NOI is defined by the Company as total property revenue less direct property operating expenses (including property taxes), and excluding corporate-level income (including management, development and other fees), corporate-level property management and other indirect operating expenses, investments and investment management expenses, expensed transaction, development and other pursuit costs, net of recoveries, interest expense, net, loss (gain) on extinguishment of debt, net, general and administrative expense, equity in income of unconsolidated real estate entities, depreciation expense, corporate income tax (benefit) expense, casualty and impairment loss (gain), net, gain on sale of communities, loss (gain) on other real estate transactions, net and net operating income from real estate assets sold or held for sale. Although the Company considers NOI a useful measure of a community's or communities' operating performance, NOI should not be considered an alternative to net income or net cash flow from operating activities, as determined in accordance with GAAP. NOI excludes a number of income and expense categories as detailed in the reconciliation of NOI to net income.

A reconciliation of NOI to net income for years ended December 31, 2018, 2017 and 2016 is as follows (dollars in thousands):

	For the year ended		
	12/31/18	12/31/17	12/31/16
Net income	\$ 974,175	\$ 876,660	\$ 1,033,708
Indirect operating expenses, net of corporate income	76,522	65,398	61,403
Investments and investment management expense	7,709	5,936	4,822
Expensed acquisition, development and other pursuit costs, net of recoveries	4,309	2,736	9,922
Interest expense, net	220,974	199,661	187,510
Loss on extinguishment of debt, net	17,492	25,472	7,075
General and administrative expense	56,365	50,673	45,771
Equity in income of unconsolidated real estate entities	(15,270)	(70,744)	(64,962)
Depreciation expense	631,196	584,150	531,434
Income tax (benefit) expense	(160)	141	305
Casualty and impairment loss (gain), net	215	6,250	(3,935)
Gain on sale of communities	(374,976)	(252,599)	(374,623)
(Gain) loss on other real estate transactions	(345)	10,907	(10,224)
Net operating income from real estate assets sold or held for sale	(58,620)	(84,650)	(114,219)
Net operating income	<u>\$ 1,539,586</u>	<u>\$ 1,419,991</u>	<u>\$ 1,313,987</u>

The following is a summary of NOI from real estate assets sold or held for sale for the periods presented (dollars in thousands):

	For the year ended		
	12/31/2018	12/31/2017	12/31/2016
Rental income from real estate assets sold or held for sale	\$ 88,865	\$ 133,956	\$ 179,226
Operating expenses from real estate assets sold or held for sale	(30,245)	(49,306)	(65,007)
Net operating income from real estate assets sold or held for sale	<u>\$ 58,620</u>	<u>\$ 84,650</u>	<u>\$ 114,219</u>

The primary performance measure for communities under development or redevelopment depends on the stage of completion. While under development, management monitors actual construction costs against budgeted costs as well as lease-up pace and rent levels compared to budget.

The following table provides details of the Company's segment information as of the dates specified (dollars in thousands). The segments are classified based on the individual community's status at January 1, 2018 for the years ended December 31, 2018 and 2017 and at January 1, 2017, for the year ended December 31, 2016. Segment information for the years ended December 31, 2018, 2017 and 2016 has been adjusted to exclude the real estate assets that were sold from January 1, 2016 through December 31, 2018, or otherwise qualify as held for sale as of December 31, 2018, as described in Note 6, "Real Estate Disposition Activities."

	Total revenue	NOI	Gross real estate (1)
For the year ended December 31, 2018			
Established			
New England	\$ 239,638	\$ 157,109	\$ 2,014,158
Metro NY/NJ	360,430	254,132	3,086,133
Mid-Atlantic	237,113	165,724	2,226,315
Pacific Northwest	86,571	62,194	727,652
Northern California	366,834	280,994	2,986,068
Southern California	341,840	245,356	2,921,616
Total Established (2)	<u>1,632,426</u>	<u>1,165,509</u>	<u>13,961,942</u>
Other Stabilized	262,053	178,172	2,934,711
Development / Redevelopment	297,619	195,905	5,201,454
Land Held for Future Development	N/A	N/A	84,712
Non-allocated (3)	3,572	N/A	94,350
Total	<u>\$ 2,195,670</u>	<u>\$ 1,539,586</u>	<u>\$ 22,277,169</u>
For the year ended December 31, 2017			
Established			
New England	\$ 232,688	\$ 152,514	\$ 1,993,653
Metro NY/NJ	354,444	251,760	3,071,563
Mid-Atlantic	232,987	161,546	2,216,292
Pacific Northwest	84,313	61,705	724,751
Northern California	357,209	273,940	2,972,311
Southern California	330,024	237,796	2,905,512
Total Established (2)	<u>1,591,665</u>	<u>1,139,261</u>	<u>13,884,082</u>
Other Stabilized	193,594	127,678	2,571,356
Development / Redevelopment (4)	235,266	153,052	4,104,956
Land Held for Future Development	N/A	N/A	68,364
Non-allocated (3)	4,147	N/A	78,864
Real estate disposed or held for sale (5)			1,228,314
Total	<u>\$ 2,024,672</u>	<u>\$ 1,419,991</u>	<u>\$ 21,935,936</u>
For the year ended December 31, 2016			
Established			
New England	\$ 209,935	\$ 136,019	\$ 1,667,171
Metro NY/NJ	294,199	204,882	2,412,742
Mid-Atlantic	203,003	141,624	1,862,091
Pacific Northwest	79,958	57,857	731,277
Northern California	331,610	253,582	2,812,859
Southern California	313,404	224,955	2,840,773
Total Established (2)	<u>1,432,109</u>	<u>1,018,919</u>	<u>12,326,913</u>
Other Stabilized	221,272	151,475	2,650,966
Development / Redevelopment (6)	207,049	143,593	4,154,778
Land Held for Future Development	N/A	N/A	84,293
Non-allocated (3)	5,599	N/A	80,700
Real estate disposed or held for sale (5)			1,458,130
Total	<u>\$ 1,866,029</u>	<u>\$ 1,313,987</u>	<u>\$ 20,755,780</u>

- (1) Does not include gross real estate assets held for sale of \$65,408 and \$20,846 as of December 31, 2018 and 2016, respectively.
- (2) Gross real estate for the Company's Established Communities includes capitalized additions of approximately \$78,469, \$78,241 and \$85,676 in 2018, 2017 and 2016, respectively.
- (3) Revenue represents third-party management, accounting, and developer fees and miscellaneous income which are not allocated to a reportable segment.
- (4) Total revenue and NOI for the year ended December 31, 2017 includes \$3,495 in business interruption insurance proceeds related to the Maplewood casualty loss.

- (5) Represents real estate sold or held for sale between the reported year end date and December 31, 2018, which is not allocated to a reportable segment.
- (6) Total revenue and NOI for the year ended December 31, 2016 includes \$20,306 in business interruption insurance proceeds related to the Edgewater casualty loss.

#### 9. Stock-Based Compensation Plans

The Company's Second Amended and Restated 2009 Equity Incentive Plan (the "2009 Plan") includes an authorization to issue shares of the Company's common stock, par value \$0.01 per share. At December 31, 2018, the Company had 7,509,205 shares remaining available to issue under the 2009 Plan, exclusive of shares that may be issued to satisfy currently outstanding awards such as stock options or performance awards. In addition, any awards that were outstanding under the Company's 1994 Stock Option and Incentive Plan (the "1994 Plan") on May 21, 2009, the date the Company adopted the 2009 Plan, that are subsequently forfeited, canceled, surrendered or terminated (other than by exercise) will become available for awards under the 2009 Plan. The 2009 Plan provides for various types of equity awards to associates, officers, non-employee directors and other key personnel of the Company and its subsidiaries. The types of awards that may be granted under the 2009 Plan include restricted stock, restricted stock units, stock options that qualify as incentive stock options ("ISOs") under Section 422 of the Code, non-qualified stock options, stock appreciation rights and performance awards, among others. No grants of stock options and other awards will be made after May 15, 2027, and no grants of incentive stock options will be made after February 16, 2027.

Information with respect to stock options granted under the 2009 and 1994 Plans is as follows:

	2009 Plan shares	Weighted average exercise price per share	1994 Plan shares	Weighted average exercise price per share
Options Outstanding, December 31, 2015	249,178	\$ 122.17	82,195	\$ 103.27
Exercised	(71,845)	117.04	(59,654)	112.85
Granted	—	—	—	—
Forfeited	—	—	—	—
Options Outstanding, December 31, 2016	177,333	\$ 124.25	22,541	\$ 77.91
Exercised	(27,360)	110.47	(14,763)	93.35
Granted	—	—	—	—
Forfeited	—	—	—	—
Options Outstanding, December 31, 2017	149,973	\$ 126.77	7,778	\$ 48.60
Exercised	(32,756)	126.24	(7,778)	48.60
Granted (1)	6,995	161.10	—	—
Forfeited	—	—	—	—
Options Outstanding, December 31, 2018	124,212	\$ 128.84	—	\$ —
Options Exercisable:				
December 31, 2016	177,333	\$ 124.25	22,541	\$ 77.91
December 31, 2017	149,973	\$ 126.77	7,778	\$ 48.60
December 31, 2018	117,217	\$ 126.91	—	\$ —

- (1) Options granted during the year ended December 31, 2018 are a result of recipient elections to receive a portion of earned performance awards and time-vesting restricted stock in the form of stock options.

The following summarizes the exercise prices and contractual lives of options outstanding as of December 31, 2018:

2009 Plan Number of Options	Range—Exercise Price			Weighted Average Remaining Contractual Term (in years)
4,380	\$70.00	-	\$79.99	1.1
7,865	\$110.00	-	\$119.99	2.1
29,862	\$120.00	-	\$129.99	4.2
75,110	\$130.00	-	\$139.99	3.8
6,995	\$160.00	-	\$169.99	9.1
124,212				

Options outstanding and exercisable at December 31, 2018 had an intrinsic value of \$5,616,000 and \$5,525,000, respectively. Options exercisable had a weighted average contractual life of 4.0 years. The intrinsic value of options exercised under the 2009 and 1994 Plans during 2018, 2017 and 2016 was \$3,016,000, \$3,592,000 and \$9,187,000, respectively. There were no stock options granted in 2018, 2017 and 2016, other than those elected under the Company's performance award plan discussed below.

The Company has a compensation framework under which share-based compensation granted is composed of annual restricted stock awards for which one third of the award vests annually over a three year period, and multi-year long term incentive performance awards. For annual restricted stock awards, in lieu of time-vesting restricted stock, the recipient may elect to receive up to 25% of the award value in the form of stock options, for which one third of the award vests annually over a three year period. Under the Company's multi-year long term incentive compensation framework, the Company grants a target number of performance awards, with the ultimate award determined by the total shareholder return of the Company's common stock and/or operating performance metrics, measured in each case over a measurement period of up to three years. Performance awards granted in 2017 or earlier are earned in the form of time-vesting restricted stock following the end of the three-year performance period, provided that the predetermined goals have been achieved. Performance awards granted after 2017 are fully vested for the recipient following the measurement period.

For performance awards with performance periods beginning on or after January 1, 2015, after the first year of the performance period, if the employee's employment terminates on account of death, disability, retirement, or termination without cause, the employee shall vest in a pro rata portion of the award (based on the employee's service time during the performance period), with such vested portion to be earned and converted into shares at the end of the performance period based on actual achievement under the performance award. For other terminating events, performance awards are generally forfeited.

Information with respect to performance awards granted is as follows:

	Performance awards	Weighted average grant date fair value per award
Outstanding at December 31, 2015	238,266	\$ 119.65
Granted (1)	94,054	141.92
Change in awards based on performance (2)	36,091	101.52
Converted to restricted stock	(115,618)	94.67
Forfeited	(1,630)	141.98
Outstanding at December 31, 2016	251,163	\$ 136.74
Granted (3)	81,708	176.59
Change in awards based on performance (2)	49,323	119.26
Converted to restricted stock	(128,482)	118.75
Forfeited	(1,942)	159.39
Outstanding at December 31, 2017	251,770	\$ 155.25
Granted (4)	100,965	155.31
Change in awards based on performance (2)	5,990	148.79
Converted to restricted stock	(88,477)	148.79
Forfeited	(3,119)	160.33
Outstanding at December 31, 2018	267,129	\$ 157.21



- (1) The amount of restricted stock that ultimately may be earned is based on the total shareholder return metrics related to the Company's common stock for 61,039 performance awards and financial metrics related to operating performance and leverage metrics of the Company for 33,015 performance awards.
- (2) Represents the change in the number of performance awards earned based on performance achievement for the performance period.
- (3) The amount of restricted stock that ultimately may be earned is based on the total shareholder return metrics related to the Company's common stock for 49,374 performance awards and financial metrics related to operating performance and leverage metrics of the Company for 32,334 performance awards.
- (4) The amount of restricted stock that ultimately may be earned is based on the total shareholder return metrics related to the Company's common stock for 62,043 performance awards and financial metrics related to operating performance and leverage metrics of the Company for 38,922 performance awards.

The Company used a Monte Carlo model to assess the compensation cost associated with the portion of the performance awards granted for which achievement will be determined by using total shareholder return measures. The assumptions used are as follows:

	2018	2017	2016
Dividend yield	3.7%	3.2%	3.3%
Estimated volatility over the life of the plan (1)	11.8% - 18.7%	15.3% - 19.7%	15.2% - 22.8%
Risk free rate	1.86% - 2.46%	0.69% - 1.61%	0.44% - 0.88%
Estimated performance award value based on total shareholder return measure	\$151.67	\$175.86	\$131.24

- (1) Estimated volatility of the life of the plan is using 50% historical volatility and 50% implied volatility.

For the portion of the performance awards granted for which achievement is determined by using financial metrics, the compensation cost was based on a weighted average grant date value of \$161.10, \$179.07 and \$161.66, for the years ended December 31, 2018, 2017 and 2016, respectively, and the Company's estimate of corporate achievement for the financial metrics.

Information with respect to restricted stock granted is as follows:

	Restricted stock shares	Restricted stock shares weighted average grant date fair value per share	Restricted stock shares converted from performance awards
Outstanding at December 31, 2015	147,884	\$ 146.21	98,347
Granted - restricted stock shares	81,400	162.38	115,618
Vested - restricted stock shares	(88,712)	141.38	(36,872)
Forfeited	(3,867)	162.43	(395)
Outstanding at December 31, 2016	136,705	\$ 158.51	176,698
Granted - restricted stock shares	73,342	179.58	128,482
Vested - restricted stock shares	(73,683)	153.86	(70,595)
Forfeited	(2,731)	173.42	(657)
Outstanding at December 31, 2017	133,633	\$ 172.33	233,928
Granted - restricted stock shares	98,713	161.58	88,297
Vested - restricted stock shares	(67,832)	171.22	(112,230)
Forfeited	(4,103)	166.40	(757)
Outstanding at December 31, 2018	160,411	\$ 166.33	209,238

Total employee stock-based compensation cost recognized in income was \$19,707,000, \$17,085,000 and \$14,666,000 for the years ended December 31, 2018, 2017 and 2016, respectively, and total capitalized stock-based compensation cost was \$10,208,000, \$9,474,000 and \$9,266,000 for the years ended December 31, 2018, 2017 and 2016, respectively. At December 31, 2018, there was a total unrecognized compensation cost of \$28,116,000 for unvested restricted stock and performance awards, which does not include forfeitures, and is expected to be recognized over a weighted average period of 2.5 years.

As of January 1, 2017, the Company adopted the provisions of ASU 2016-09, electing to account for forfeitures as they occur. Prior to the adoption of ASU 2016-09, the Company was required to estimate the forfeiture of stock options and recognized compensation cost net of the estimated forfeitures. The estimated forfeitures included in compensation cost were adjusted to reflect actual forfeitures at the end of the vesting period. The actual forfeiture rate for the years ended December 31, 2018 and 2017 were 0.6% and 0.7%, respectively. The application of estimated forfeitures did not materially impact compensation expense for the year ended December 31, 2016.

#### *Employee Stock Purchase Plan*

In October 1996, the Company adopted the 1996 Non-Qualified Employee Stock Purchase Plan (as amended, the "ESPP"). Initially 1,000,000 shares of common stock were reserved for issuance under this plan. There are currently 668,329 shares remaining available for issuance under the ESPP. Employees of the Company generally are eligible to participate in the ESPP if, as of the last day of the applicable purchase period, they have been employed by the Company for at least one month. Under the ESPP, eligible employees are permitted to acquire shares of the Company's common stock through payroll deductions, subject to maximum purchase limitations, during two purchase periods. The first purchase period begins January 1 and ends June 10, and the second purchase period begins July 1 and ends December 10. The purchase price for common stock purchased under the plan is 85% of the lesser of the fair market value of the Company's common stock on the first day of the applicable purchase period or the last day of the applicable purchase period. The offering dates, purchase dates and duration of purchase periods may be changed if the change is announced prior to the beginning of the affected date or purchase period. The Company issued 12,955, 11,528 and 11,348 shares and recognized compensation expense of \$436,000, \$418,000 and \$289,000 under the ESPP for the years ended December 31, 2018, 2017 and 2016, respectively. The Company accounts for transactions under the ESPP using the fair value method prescribed by accounting guidance applicable to entities that use employee share purchase plans.

#### 10. Related Party Arrangements

##### *Unconsolidated Entities*

The Company manages unconsolidated real estate entities for which it receives asset management, property management, development and redevelopment fee revenue. From these entities, the Company earned fees of \$3,572,000, \$4,147,000 and \$5,599,000 in the years ended December 31, 2018, 2017 and 2016, respectively. In addition, the Company had outstanding receivables associated with its property and construction management role of \$2,519,000 and \$2,449,000 as of December 31, 2018 and 2017, respectively.

##### *Director Compensation*

Directors of the Company who are also employees receive no additional compensation for their services as a director. Following each annual meeting of stockholders, non-employee directors receive (i) a number of shares of restricted stock (or deferred stock units) having a value of \$140,000 and (ii) a cash payment of \$90,000, payable in equal quarterly installments of \$22,500. The number of shares of restricted stock (or deferred stock units) is calculated based on the closing price on the day of the award. Non-employee directors may elect to receive all or a portion of cash payments in the form of deferred stock units. Additionally, the Lead Independent Director receives in the aggregate an additional annual fee of \$30,000 payable in equal quarterly installments of \$7,500, non-employee directors serving as the chairperson of the Audit or Compensation Committees receive additional cash compensation of \$20,000 per year payable in equal quarterly installments of \$5,000, and the Nominating and Corporate Governance and Investment and Finance Committee chairpersons receive an additional annual fee of \$15,000 payable in equal quarterly installments of \$3,750.

The Company recorded non-employee director compensation expense relating to restricted stock grants and deferred stock awards in the amount of \$1,624,000, \$1,524,000 and \$1,216,000 for the years ended December 31, 2018, 2017 and 2016, respectively, as a component of general and administrative expense. Deferred compensation relating to these restricted stock grants and deferred stock awards to non-employee directors was \$571,000, \$525,000 and \$531,000 on December 31, 2018, 2017 and 2016, respectively, reported as a component of prepaid expenses and other assets on the accompanying Consolidated Balance Sheets.

## 11. Fair Value

### Financial Instruments Carried at Fair Value

#### Derivative Financial Instruments

Currently, the Company uses interest rate swap and interest rate cap agreements to manage its interest rate risk. These instruments are carried at fair value in the Company's financial statements. In adjusting the fair value of its derivative contracts for the effect of counterparty nonperformance risk, the Company has considered the impact of its net position with a given counterparty, as well as any applicable credit enhancements, such as collateral postings, thresholds, mutual puts and guarantees. The Company minimizes its credit risk on these transactions by dealing with major, creditworthy financial institutions which have an A or better credit rating by the Standard & Poor's Ratings Group. As part of its on-going control procedures, the Company monitors the credit ratings of counterparties and the exposure of the Company to any single entity, thus reducing credit risk concentration. The Company believes the likelihood of realizing losses from counterparty nonperformance is remote. Although the Company has determined that the majority of the inputs used to value its derivatives fall within Level 2 of the fair value hierarchy, such as interest rate, term to maturity and volatility, the credit valuation adjustments associated with its derivatives use Level 3 inputs, such as estimates of current credit spreads, to evaluate the likelihood of default by itself and its counterparties. As of December 31, 2018, the Company assessed the significance of the impact of the credit valuation adjustments on the overall valuation of its derivative positions and has determined it is not significant. As a result, the Company has determined that its derivative valuations are classified in Level 2 of the fair value hierarchy.

The Company recognized a gain of \$753,000 for hedge ineffectiveness for the year ended December 31, 2017, included as a component of interest expense, net on the accompanying Consolidated Statements of Comprehensive Income. Hedge ineffectiveness did not have a material impact on earnings of the Company for any prior period.

The following table summarizes the consolidated derivative positions at December 31, 2018 (dollars in thousands):

	Non-designated Hedges Interest Rate Caps	Cash Flow Hedges Interest Rate Caps	Cash Flow Hedges Interest Rate Swaps
Notional balance	\$ 588,383	\$ 34,155	\$ 250,000
Weighted average interest rate (1)	3.3%	4.5%	N/A
Weighted average swapped/capped interest rate	6.6%	5.9%	3.0%
Earliest maturity date	April 2020	April 2019	September 2019
Latest maturity date	September 2022	April 2019	September 2019

(1) For interest rate caps, represents the weighted average interest rate on the hedged debt.

In 2018, the Company entered into \$250,000,000 of forward interest rate swap agreements executed to reduce the impact of variability in interest rates on a portion of the Company's expected debt issuance activity in 2019. During 2018, the Company settled \$300,000,000 of forward interest rate swap agreements entered into in 2017, receiving a payment of \$12,598,000. The Company has deferred the effective portion of the fair value change of these swaps, in accumulated other comprehensive loss on the accompanying Consolidated Balance Sheets, and will recognize the impact as a component of interest expense, net, over the 10 year period of interest payments hedged.

As of December 31, 2018, the Company had \$250,000,000 in aggregate outstanding forward interest rate swap agreements. At maturity of the remaining outstanding swap agreements, the Company expects to cash settle the contracts and either pay or receive cash for the then current fair value. Assuming that the Company issues the debt as expected, the hedging impact from these positions will then be recognized over the life of the issued debt as a yield adjustment.

The Company had four derivatives designated as cash flow hedges and 10 derivatives not designated as hedges at December 31, 2018. Fair value changes for derivatives not in qualifying hedge relationships for the years ended December 31, 2018 and 2017, were not material. During 2018, the Company deferred \$5,132,000 of gains for cash flow hedges reported as a component of other comprehensive income (loss).

The following table summarizes the deferred losses reclassified from accumulated other comprehensive income as a component of interest expense, net (dollars in thousands):

	For the year ended		
	12/31/18	12/31/17	12/31/16
Cash flow hedge losses reclassified to earnings	\$ 6,143	\$ 7,070	\$ 6,433

The Company anticipates reclassifying approximately \$5,752,000 of hedging losses from accumulated other comprehensive loss into earnings within the next 12 months to offset the variability of cash flows of the hedged item during this period. The Company did not have any derivatives designated as fair value hedges as of December 31, 2018 and 2017.

#### Redeemable Noncontrolling Interests

The Company provided redemption options (the "Puts") that allow joint venture partners of the Company to require the Company to purchase their interests in the investment at a guaranteed minimum amount related to two consolidated ventures. The Puts are payable in cash. The Company determines the fair value of the Puts based on unobservable inputs considering the assumptions that market participants would make in pricing the obligations, applying a guaranteed rate of return to the joint venture partners' net capital contribution balances as of period end. Given the significance of the unobservable inputs, the valuations are classified in Level 3 of the fair value hierarchy.

The Company issued units of limited partnership interest in DownREITs which provide the DownREIT limited partners the ability to present all or some of their units for redemption for cash as determined by the partnership agreement. Under the DownREIT agreements, for each limited partnership unit, the limited partner is entitled to receive cash in the amount equal to the fair value of the Company's common stock on or about the date of redemption. In lieu of cash redemption, the Company may elect to exchange such units for an equal number of shares of the Company's common stock. The limited partnership units in the DownREITs are valued using the market price of the Company's common stock, a Level 1 price under the fair value hierarchy.

#### Financial Instruments Not Carried at Fair Value

##### Cash and Cash Equivalents

Cash and cash equivalent balances are held with various financial institutions within accounts designed to preserve principal. The Company monitors credit ratings of these financial institutions and the concentration of cash and cash equivalent balances with any one financial institution and believes the likelihood of realizing material losses related to cash and cash equivalent balances is remote. Cash and cash equivalents are carried at their face amounts, which reasonably approximate their fair values and are Level 1 within the fair value hierarchy.

##### Other Financial Instruments

Rents and other receivables and prepaids, accounts and construction payable and accrued expenses and other liabilities are carried at their face amounts, which reasonably approximate their fair values.

The Company values its unsecured notes using quoted market prices, a Level 1 price within the fair value hierarchy. The Company values its notes payable and outstanding amounts under the Credit Facility and Term Loan using a discounted cash flow analysis on the expected cash flows of each instrument. This analysis reflects the contractual terms of the instrument, including the period to maturity, and uses observable market-based inputs, including interest rate curves. The process also considers credit valuation adjustments to appropriately reflect the Company's nonperformance risk. The Company has concluded that the value of its notes payable and amounts outstanding under its Credit Facility and Term Loan are Level 2 prices as the majority of the inputs used to value its positions fall within Level 2 of the fair value hierarchy.

## Financial Instruments Measured/Disclosed at Fair Value on a Recurring Basis

The following table summarizes the classification between the three levels of the fair value hierarchy of the Company's financial instruments measured/disclosed at fair value on a recurring basis (dollars in thousands):

Description	Total Fair Value	Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)	For the three months ended (1)			
					3/31/17	6/30/17	9/30/17	12/31/17
<b>12/31/2018</b>								
Non Designated Hedges								
Interest Rate Caps	\$ 2	\$ —	\$ 2	\$ —				
Cash Flow Hedges								
Interest Rate Swaps - Liabilities	(6,366)	—	(6,366)	—				
Puts	(465)	—	—	(465)				
DownREIT units	(1,305)	(1,305)	—	—				
Indebtedness								
Unsecured notes	(5,566,179)	(5,566,179)	—	—				
Secured notes payable and unsecured term loans	(1,207,974)	—	(1,207,974)	—				
Total	<u>\$ (6,782,287)</u>	<u>\$ (5,567,484)</u>	<u>\$ (1,214,338)</u>	<u>\$ (465)</u>				
<b>12/31/2017</b>								
Non Designated Hedges								
Interest Rate Caps	\$ 2	\$ —	\$ 2	\$ —				
Cash Flow Hedges								
Interest Rate Swaps - Assets	2,270	—	2,270	—				
Interest Rate Swaps - Liabilities	(1,171)	—	(1,171)	—				
Puts	(3,245)	—	—	(3,245)				
DownREIT units	(1,338)	(1,338)	—	—				
Indebtedness								
Unsecured notes	(5,446,604)	(5,446,604)	—	—				
Secured notes payable and unsecured term loans	(1,849,851)	—	(1,849,851)	—				
Total	<u>\$ (7,299,937)</u>	<u>\$ (5,447,942)</u>	<u>\$ (1,848,750)</u>	<u>\$ (3,245)</u>				

## 12. Quarterly Financial Information

The following summary represents the unaudited quarterly results of operations for the years ended December 31, 2018 and 2017 (dollars in thousands, except per share data):

	For the three months ended (1)			
	3/31/18	6/30/18	9/30/18	12/31/18
Total revenue	\$ 560,792	\$ 569,239	\$ 575,982	\$ 578,522
Net income	\$ 141,590	\$ 254,543	\$ 192,407	\$ 385,636
Net income attributable to common stockholders	\$ 141,643	\$ 254,662	\$ 192,486	\$ 385,734
Net income per common share - basic	\$ 1.03	\$ 1.84	\$ 1.39	\$ 2.79
Net income per common share - diluted	\$ 1.03	\$ 1.84	\$ 1.39	\$ 2.79

	For the three months ended (1)			
	3/31/17	6/30/17	9/30/17	12/31/17
Total revenue	\$ 522,326	\$ 530,512	\$ 550,500	\$ 555,292
Net income	\$ 235,781	\$ 165,194	\$ 238,199	\$ 237,486
Net income attributable to common stockholders	\$ 235,875	\$ 165,225	\$ 238,248	\$ 237,573
Net income per common share - basic	\$ 1.72	\$ 1.20	\$ 1.73	\$ 1.72
Net income per common share - diluted	\$ 1.72	\$ 1.20	\$ 1.72	\$ 1.72

(1) Amounts may not equal full year results due to rounding.

## 13. Subsequent Events

The Company has evaluated subsequent events through the date on which this Form 10-K was filed, the date on which these financial statements were issued, and identified the items below for discussion.

In January 2019, the Company sold Oakwood Arlington, a wholly-owned operating community, located in Arlington, VA. Oakwood Arlington contains 184 apartment homes, was sold for \$70,000,000 and was classified as held for sale as of December 31, 2018.

In February 2019, the Company entered into an agreement to sell an operating community containing 474 apartment homes and net real estate of \$76,573,000 as of December 31, 2018, resulting in the community qualifying as held for sale subsequent to December 31, 2018. The Company expects to complete the sale in the first quarter of 2019.

As of February 22, 2019, the Company has \$106,000,000 outstanding under the Credit Facility.

**AVALONBAY COMMUNITIES, INC.**  
**REAL ESTATE AND ACCUMULATED DEPRECIATION**  
**December 31, 2018**  
**(Dollars in thousands)**

Community	City and state	# of homes	2018				2017		2018				
			Initial Cost		Total Cost		Total Cost, Net of Accumulated Depreciation	Total Cost, Net of Accumulated Depreciation	Encumbrances	Year of Completion/Acquisition			
			Land and improvements	Building/Construction in Progress & Improvements	Land and improvements	Building/Construction in Progress & Improvements							
<b>ESTABLISHED COMMUNITIES</b>													
<b>NEW ENGLAND</b>													
<b>Boston, MA</b>													
Avalon at Lexington	Lexington, MA	198	\$ 2,124	\$ 12,567	\$ 10,758	\$ 2,124	\$ 23,325	\$ 25,449	\$ 14,980	\$ 10,469	\$ 10,704	\$ —	1994
Avalon Oaks	Wilmington, MA	204	2,129	17,567	6,197	2,129	23,764	25,893	14,742	11,151	11,429	—	1999
Eaves Quincy	Quincy, MA	245	1,743	14,662	10,450	1,743	25,112	26,855	15,381	11,474	12,133	—	1986/1995
Avalon Oaks West	Wilmington, MA	120	3,318	13,465	1,652	3,318	15,117	18,435	8,634	9,801	9,953	—	2002
Avalon Orchards	Marlborough, MA	156	2,983	17,970	2,855	2,983	20,825	23,808	12,331	11,477	12,192	—	2002
Avalon at The Pinehills	Plymouth, MA	192	6,876	30,401	1,375	6,876	31,776	38,652	12,327	26,325	26,843	—	2004
Eaves Peabody	Peabody, MA	286	4,645	18,919	14,022	4,645	32,941	37,586	14,522	23,064	23,794	—	1962/2004
Avalon at Bedford Center (1)	Bedford, MA	139	4,258	20,551	2,681	4,258	23,232	27,490	9,781	17,709	17,343	—	2006
Avalon at Lexington Hills (1)	Lexington, MA	387	8,691	79,121	7,759	8,691	86,880	95,571	31,789	63,782	63,555	—	2008
Avalon Acton	Acton, MA	380	13,124	48,695	4,416	13,124	53,111	66,235	19,390	46,845	47,864	45,000	2008
Avalon at the Hingham Shipyard	Hingham, MA	235	12,218	41,656	3,887	12,218	45,543	57,761	15,678	42,083	42,404	—	2009
Avalon Sharon	Sharon, MA	156	4,719	25,478	1,432	4,719	26,910	31,629	9,697	21,932	22,330	—	2008
Avalon Northborough	Northborough, MA	382	8,144	52,184	2,590	8,144	54,774	62,918	16,932	45,986	47,120	—	2009
Avalon Cohasset	Cohasset, MA	220	8,802	46,166	621	8,802	46,787	55,589	11,576	44,013	45,337	—	2012
Avalon Exeter (2)	Boston, MA	187	16,313	110,028	291	16,313	110,319	126,632	17,615	109,017	112,883	—	2014
Avalon Natick	Natick, MA	407	15,645	64,845	75	15,645	64,920	80,565	12,778	67,787	70,094	47,637	2013
Avalon at Assembly Row	Somerville, MA	195	8,599	52,454	143	8,599	52,597	61,196	8,685	52,511	54,339	—	2015
AVA Somerville	Somerville, MA	250	10,945	56,460	71	10,945	56,531	67,476	8,280	59,196	61,219	—	2015
Eaves Burlington	Burlington, MA	203	7,714	32,499	6,879	7,714	39,378	47,092	8,096	38,996	40,187	—	1988/2012
AVA Theater District	Boston, MA	398	17,072	163,633	131	17,072	163,764	180,836	19,204	161,632	167,191	—	2015
Avalon Burlington	Burlington, MA	312	15,600	60,649	16,664	15,600	77,313	92,913	16,123	76,790	79,079	—	1989/2013
Avalon Marlborough	Marlborough, MA	350	15,367	60,397	276	15,367	60,673	76,040	7,574	68,466	70,372	—	2015
Avalon Framingham	Framingham, MA	180	9,315	34,631	13	9,315	34,644	43,959	3,993	39,966	41,216	—	2015
Avalon Bear Hill	Waltham, MA	324	27,350	94,168	29,108	27,350	123,276	150,626	28,323	122,303	126,559	—	1999/2013
Avalon at Center Place (2)	Providence, RI	225	—	26,816	15,562	—	42,378	42,378	26,239	16,139	15,745	—	1991/1997
<b>Total Boston, MA</b>		<b>6,331</b>	<b>\$ 227,694</b>	<b>\$ 1,195,982</b>	<b>\$ 139,908</b>	<b>\$ 227,694</b>	<b>\$ 1,335,890</b>	<b>\$ 1,563,584</b>	<b>\$ 364,670</b>	<b>\$ 1,198,914</b>	<b>\$ 1,231,885</b>	<b>\$ 92,637</b>	

F-42

**AVALONBAY COMMUNITIES, INC.**  
**REAL ESTATE AND ACCUMULATED DEPRECIATION (Continued)**  
**December 31, 2018**  
**(Dollars in thousands)**

Community	City and state	# of homes	2018				2017		2018				
			Initial Cost		Total Cost		Total Cost, Net of Accumulated Depreciation	Total Cost, Net of Accumulated Depreciation	Encumbrances	Year of Completion/Acquisition			
			Land and improvements	Building/Construction in Progress & Improvements	Land and improvements	Building/Construction in Progress & Improvements							
<b>Fairfield, CT</b>													
Eaves Stamford	Stamford, CT	238	\$ 5,956	\$ 23,993	\$ 13,773	\$ 5,956	\$ 37,766	\$ 43,722	\$ 25,666	\$ 18,056	\$ 18,851	\$ —	1991
Avalon Wilton on River Rd	Wilton, CT	102	2,116	14,664	7,093	2,116	21,757	23,873	12,949	10,924	11,125	—	1997
Avalon New Canaan	New Canaan, CT	104	4,834	22,990	2,279	4,834	25,269	30,103	14,227	15,876	16,795	—	2002
AVA Stamford	Stamford, CT	306	13,819	56,499	6,492	13,819	62,991	76,810	35,439	41,371	43,505	—	2002/2002
Avalon Darien	Darien, CT	189	6,926	34,558	3,219	6,926	37,777	44,703	19,616	25,087	26,129	—	2004
Avalon Norwalk	Norwalk, CT	311	11,320	62,904	1,123	11,320	64,027	75,347	18,397	56,950	58,924	—	2011
Avalon Wilton on Danbury Rd	Wilton, CT	100	6,604	23,758	178	6,604	23,936	30,540	6,415	24,125	24,939	—	2011
Avalon Shelton	Shelton, CT	250	7,749	40,366	269	7,749	40,635	48,384	8,210	40,174	41,404	—	2013
Avalon East Norwalk	Norwalk, CT	240	10,395	36,451	269	10,395	36,720	47,115	7,067	40,048	41,089	—	2013
Avalon Stratford	Stratford, CT	130	2,564	27,232	181	2,564	27,413	29,977	4,269	25,708	26,480	—	2014
<b>Total Fairfield, CT</b>		<b>1,970</b>	<b>\$ 72,283</b>	<b>\$ 343,415</b>	<b>\$ 34,876</b>	<b>\$ 72,283</b>	<b>\$ 378,291</b>	<b>\$ 450,574</b>	<b>\$ 152,255</b>	<b>\$ 298,319</b>	<b>\$ 309,241</b>	<b>\$ —</b>	
<b>TOTAL NEW ENGLAND</b>		<b>8,301</b>	<b>\$ 299,977</b>	<b>\$ 1,539,397</b>	<b>\$ 174,784</b>	<b>\$ 299,977</b>	<b>\$ 1,774,181</b>	<b>\$ 2,014,158</b>	<b>\$ 516,925</b>	<b>\$ 1,497,233</b>	<b>\$ 1,541,126</b>	<b>\$ 92,637</b>	
<b>METRO NY/NJ</b>													
<b>New York City, NY</b>													
Avalon Riverview (2)	Long Island City, NY	372	\$ —	\$ 94,061	\$ 10,407	\$ —	\$ 104,468	\$ 104,468	\$ 58,171	\$ 46,297	\$ 51,418	\$ —	2002
Avalon Riverview North (1)(2)	Long Island City, NY	602	—	165,954	15,108	—	181,062	181,062	66,109	114,953	120,377	—	2008
Avalon Fort Greene	Brooklyn, NY	631	83,038	216,802	2,953	83,038	219,755	302,793	65,367	237,426	243,951	—	2010
AVA DoBro	Brooklyn, NY	500	77,419	205,104	41	77,419	205,145	282,564	18,119	264,445	270,657	—	2017
Avalon Clinton North (1)	New York, NY	339	84,069	105,821	12,182	84,069	118,003	202,072	27,362	174,710	178,007	147,000	2008/2013
Avalon Clinton South	New York, NY	288	71,421	89,851	6,802	71,421	96,653	168,074	23,369	144,705	147,364	121,500	2007/2013
<b>Total New York City, NY</b>		<b>2,732</b>	<b>\$ 315,947</b>	<b>\$ 877,593</b>	<b>\$ 47,493</b>	<b>\$ 315,947</b>	<b>\$ 925,086</b>	<b>\$ 1,241,033</b>	<b>\$ 258,497</b>	<b>\$ 982,536</b>	<b>\$ 1,011,774</b>	<b>\$ 268,500</b>	
<b>New York - Suburban</b>													
Avalon Commons	Smithtown, NY	312	\$ 4,679	\$ 28,286	\$ 6,790	\$ 4,679	\$ 35,076	\$ 39,755	\$ 23,830	\$ 15,925	\$ 16,719	\$ —	1997
Avalon Green I	Elmsford, NY	105	1,820	10,525	7,669	1,820	18,194	20,014	10,505	9,509	9,997	—	1995
Avalon Bronxville	Bronxville, NY	110	2,889	28,324	8,778	2,889	37,102	39,991	21,121	18,870	20,102	—	1999
Avalon at Glen Cove (2)	Glen Cove, NY	256	7,871	59,969	4,941	7,871	64,910	72,781	31,407	41,374	43,275	—	2004
Avalon Glen Cove North (2)	Glen Cove, NY	111	2,577	37,336	747	2,577	38,083	40,660	15,195	25,465	26,569	—	2007
Avalon White Plains	White Plains, NY	407	15,391	137,353	1,328	15,391	138,681	154,072	46,177	107,895	112,241	—	2009

F-43

**AVALONBAY COMMUNITIES, INC.**  
**REAL ESTATE AND ACCUMULATED DEPRECIATION (Continued)**  
**December 31, 2018**  
**(Dollars in thousands)**

Community	City and state	# of homes	2018				2017				2018			
			Initial Cost		Total Cost		Total Cost, Net of Accumulated Depreciation		Total Cost, Net of Accumulated Depreciation		Encumbrances		Encumbrances	
			Land and Improvements	Building/Construction in Progress & Improvements	Costs Subsequent to Acquisition/Construction	Building/Construction in Progress & Improvements	Land and Improvements	Building/Construction in Progress & Improvements	Accumulated Depreciation	Total	Accumulated Depreciation	Total	Encumbrances	Total
Avalon Rockville Centre I	Rockville Centre, NY	349	\$ 32,212	\$ 78,806	\$ 2,804	\$ 81,610	\$ 113,822	\$ 21,224	\$ 92,598	\$ 94,747	\$ —	\$ —	\$ —	\$ —
Avalon Green II	Elmsford, NY	444	27,765	77,560	544	78,104	105,869	18,551	87,318	89,834	—	—	—	—
Avalon Garden City	Garden City, NY	204	18,205	49,326	640	49,966	68,171	11,302	56,869	58,511	—	—	—	—
Avalon Ossining	Ossining, NY	168	6,392	30,313	47	30,360	36,732	5,185	31,567	32,627	—	—	—	—
Avalon Huntington Station	Huntington Station, NY	303	21,899	58,440	163	58,603	80,502	9,212	71,290	73,131	—	—	—	—
Avalon Green III	Elmsford, NY	68	4,985	17,300	7	17,307	22,292	1,860	20,432	21,037	—	—	—	—
Avalon Westbury	Westbury, NY	396	69,620	43,781	11,794	55,575	125,195	17,813	107,382	109,056	77,295	2006/2013	—	—
<b>Total New York - Suburban</b>		<b>3,233</b>	<b>\$ 216,305</b>	<b>\$ 657,319</b>	<b>\$ 46,252</b>	<b>\$ 703,571</b>	<b>\$ 919,876</b>	<b>\$ 233,382</b>	<b>\$ 686,494</b>	<b>\$ 707,846</b>	<b>\$ 77,295</b>			
<b>New Jersey</b>														
Avalon Cove	Jersey City, NJ	504	\$ 8,760	\$ 82,422	\$ 24,942	\$ 107,364	\$ 116,124	\$ 68,718	\$ 47,406	\$ 49,264	\$ —	\$ —	\$ —	\$ —
Eaves Lawrenceville	Lawrenceville, NJ	632	14,650	60,486	12,367	72,853	87,503	35,005	52,498	54,936	—	—	—	—
Avalon Princeton Junction	West Windsor, NJ	512	5,585	22,382	22,325	44,707	50,292	27,542	22,750	23,632	—	—	—	—
Avalon Tinton Falls	Tinton Falls, NJ	216	7,939	33,170	621	33,791	41,730	12,389	29,341	30,404	—	—	—	—
Avalon West Long Branch	West Long Branch, NJ	180	2,721	22,925	346	23,271	25,992	6,832	19,160	19,728	—	—	—	—
Avalon North Bergen	North Bergen, NJ	164	8,984	30,994	1,021	32,015	40,999	7,721	33,278	34,432	—	—	—	—
Avalon at Westmont Station I	Wood-Ridge, NJ	266	14,682	41,635	1,474	43,109	57,791	10,010	47,781	49,053	—	—	—	—
Avalon Hackensack at Riverside (2)	Hackensack, NJ	226	—	44,619	168	—	44,787	44,787	8,781	36,006	—	—	—	—
Avalon Somerset	Somerset, NJ	384	18,241	58,338	282	58,620	76,861	11,998	64,863	66,988	—	—	—	—
Avalon Bloomfield Station	Bloomfield, NJ	224	10,701	39,936	10	39,946	50,647	4,969	45,678	47,034	—	—	—	—
Avalon at Westmont Station II	Wood-Ridge, NJ	140	6,502	16,863	13	16,876	23,378	3,499	19,879	20,502	—	—	—	—
Avalon Bloomingdale	Bloomingdale, NJ	174	3,006	27,801	72	27,873	30,879	5,143	25,736	26,759	—	—	—	—
Avalon Wharton	Wharton, NJ	247	2,273	48,609	92	48,701	50,974	6,920	44,054	45,813	—	—	—	—
Avalon Roseland	Roseland, NJ	136	11,288	34,868	27	34,895	46,183	4,507	41,676	42,956	—	—	—	—
Avalon Union	Union, NJ	202	11,695	36,317	—	36,317	48,012	3,718	44,294	45,458	—	—	—	—
Avalon Hoboken	Hoboken, NJ	217	37,237	90,475	5,360	37,237	93,835	13,072	118,205	121,394	67,904	2008/2016	—	—
<b>Total New Jersey</b>		<b>4,424</b>	<b>\$ 164,264</b>	<b>\$ 691,840</b>	<b>\$ 69,120</b>	<b>\$ 760,960</b>	<b>\$ 925,224</b>	<b>\$ 232,619</b>	<b>\$ 692,605</b>	<b>\$ 715,960</b>	<b>\$ 67,904</b>			
<b>TOTAL METRO NY/NJ</b>		<b>10,389</b>	<b>\$ 696,516</b>	<b>\$ 2,226,752</b>	<b>\$ 162,865</b>	<b>\$ 2,389,617</b>	<b>\$ 3,086,133</b>	<b>\$ 724,498</b>	<b>\$ 2,361,635</b>	<b>\$ 2,435,580</b>	<b>\$ 413,699</b>			

F-44

**AVALONBAY COMMUNITIES, INC.**  
**REAL ESTATE AND ACCUMULATED DEPRECIATION (Continued)**  
**December 31, 2018**  
**(Dollars in thousands)**

Community	City and state	# of homes	2018				2017				2018			
			Initial Cost		Total Cost		Total Cost, Net of Accumulated Depreciation		Total Cost, Net of Accumulated Depreciation		Encumbrances		Encumbrances	
			Land and Improvements	Building/Construction in Progress & Improvements	Costs Subsequent to Acquisition/Construction	Building/Construction in Progress & Improvements	Land and Improvements	Building/Construction in Progress & Improvements	Accumulated Depreciation	Total	Accumulated Depreciation	Total	Encumbrances	Total
<b>MID-ATLANTIC</b>														
<b>Washington Metro/Baltimore, MD</b>														
Avalon at Foxhall	Washington, D.C.	308	\$ 6,848	\$ 27,614	\$ 16,044	\$ 43,658	\$ 50,506	\$ 31,365	\$ 19,141	\$ 20,479	\$ —	\$ —	\$ —	\$ —
Avalon at Gallery Place	Washington, D.C.	203	8,800	39,658	2,630	42,288	51,088	22,557	28,531	29,620	—	—	—	—
AVA H Street	Washington, D.C.	138	7,425	25,282	178	25,460	32,885	5,715	27,170	28,034	—	—	—	—
Avalon The Albemarle	Washington, D.C.	234	25,140	52,459	7,747	60,206	85,346	15,098	70,248	71,417	—	—	—	—
Eaves Tunlaw Gardens	Washington, D.C.	166	16,430	22,902	2,462	16,430	25,364	41,794	35,177	35,949	—	—	—	—
The Statesman	Washington, D.C.	281	38,140	35,352	4,592	38,140	78,084	11,358	66,726	67,687	—	—	—	—
Eaves Glover Park	Washington, D.C.	120	9,580	26,532	2,507	29,039	38,619	7,679	30,940	31,945	—	—	—	—
Avalon First and M	Washington, D.C.	469	43,700	153,950	3,697	157,647	201,347	34,095	167,252	172,291	—	—	—	—
Eaves Washingtonian Center	North Potomac, MD	288	4,047	18,553	3,188	4,047	25,788	15,260	10,528	11,116	—	—	—	—
Eaves Columbia Town Center	Columbia, MD	392	8,802	35,536	12,476	48,012	56,814	22,591	34,223	35,522	—	—	—	—
Avalon at Grosvenor Station	Bethesda, MD	497	29,159	52,993	3,160	29,159	85,312	29,107	56,205	57,751	—	—	—	—
Avalon at Traville	Rockville, MD	520	14,365	55,398	4,520	14,365	74,283	30,282	44,001	46,001	—	—	—	—
Avalon Fairway Hills - Meadows	Columbia, MD	192	2,323	9,297	4,857	14,154	16,477	9,548	6,929	7,005	—	—	—	—
Avalon Fairway Hills - Woods	Columbia, MD	336	3,958	15,839	7,562	3,958	23,401	16,045	11,314	11,934	—	—	—	—
Avalon Russett	Laurel, MD	238	10,200	47,524	3,447	10,200	61,171	12,939	48,232	49,907	32,200	1999/2013	—	—
Eaves Fair Lakes	Fairfax, VA	420	6,096	24,400	9,700	6,096	34,100	40,196	22,540	18,135	—	—	—	—
AVA Ballston	Arlington, VA	344	7,291	29,177	16,442	7,291	45,619	30,758	22,152	23,626	—	—	—	—
Avalon Tysons Corner	Tysons Corner, VA	558	13,851	43,397	13,076	13,851	70,324	34,843	35,481	37,210	—	—	—	—
Avalon Park Crest	Tysons Corner, VA	354	13,554	63,526	388	13,554	77,468	14,319	63,149	65,422	—	—	—	—
Avalon Mosaic	Fairfax, VA	531	33,490	75,801	161	33,490	109,452	13,273	96,179	98,831	—	—	—	—
Avalon Potomac Yard	Alexandria, VA	323	24,225	81,982	2,815	24,225	84,797	11,895	97,127	100,351	—	—	—	—
Avalon Clarendon	Arlington, VA	300	22,573	95,355	5,459	22,573	100,814	12,387	111,129	113,565	—	—	—	—
Avalon Columbia Pike	Arlington, VA	269	18,830	82,427	2,561	18,830	84,988	103,818	9,297	94,521	67,085	2009/2016	—	—
Eaves Tysons Corner	Vienna, VA	217	16,030	45,420	3,015	16,030	48,435	13,076	51,389	53,277	—	—	—	—
Avalon Courthouse Place	Arlington, VA	564	56,550	178,032	10,397	56,550	188,429	44,417	200,562	206,976	—	—	—	—
Avalon Arlington North	Arlington, VA	228	21,600	59,076	141	21,600	80,817	9,926	70,891	72,913	—	—	—	—
Avalon Reston Landing	Reston, VA	400	26,710	83,084	7,079	26,710	116,873	23,691	93,182	95,979	—	—	—	—
Avalon Falls Church	Falls Church, VA	384	39,544	66,160	27	39,544	105,731	8,357	97,374	99,805	—	—	—	—
<b>TOTAL MID-ATLANTIC</b>		<b>9,274</b>	<b>\$ 529,261</b>	<b>\$ 1,546,726</b>	<b>\$ 150,328</b>	<b>\$ 1,697,054</b>	<b>\$ 2,226,315</b>	<b>\$ 518,906</b>	<b>\$ 1,707,409</b>	<b>\$ 1,760,440</b>	<b>\$ 99,285</b>			

F-45

**AVALONBAY COMMUNITIES, INC.**  
**REAL ESTATE AND ACCUMULATED DEPRECIATION (Continued)**  
**December 31, 2018**  
**(Dollars in thousands)**

Community	City and state	# of homes	2018				2017				2018			
			Initial Cost		Total Cost		Initial Cost		Total Cost		Initial Cost		Total Cost	
			Land and improvements	Building/Construction in Progress & Improvements	Costs Subsequent to Acquisition/Construction	Land and improvements	Building/Construction in Progress & Improvements	Accumulated Depreciation	Total	Accumulated Depreciation	Total	Accumulated Depreciation	Total	Accumulated Depreciation
<b>PACIFIC NORTHWEST</b>														
<b>Seattle, WA</b>														
Avalon Redmond Place	Redmond, WA	222	\$ 4,558	\$ 18,368	\$ 10,603	\$ 4,558	\$ 28,971	\$ 33,529	\$ 18,625	\$ 14,904	\$ 15,860	\$ —	1991/1997	
Avalon at Bear Creek	Redmond, WA	264	6,786	27,641	5,194	6,786	32,835	39,621	22,464	17,157	18,123	—	1998/1998	
Avalon Bellevue	Bellevue, WA	201	6,664	24,119	2,268	6,664	26,387	33,051	16,340	16,711	17,601	—	2001	
Avalon RockMeadow	Bothell, WA	206	4,777	19,765	3,246	4,777	23,011	27,788	14,446	13,342	14,049	—	2000/2000	
Avalon ParcSquare	Redmond, WA	124	3,789	15,139	3,479	3,789	18,618	22,407	11,441	10,966	11,496	—	2000/2000	
AVA Belltown	Seattle, WA	100	5,644	12,733	1,276	5,644	14,009	19,653	8,502	11,151	11,690	—	2001	
Avalon Meydenbauer	Bellevue, WA	368	12,697	77,450	1,751	12,697	79,201	91,898	29,264	62,634	65,026	—	2008	
Avalon Towers Bellevue (2)	Bellevue, WA	397	—	123,029	1,545	—	124,574	124,574	36,511	88,063	92,031	—	2011	
AVA Queen Anne	Seattle, WA	203	12,081	41,618	439	12,081	42,077	54,158	10,633	43,525	45,070	—	2012	
AVA Ballard	Seattle, WA	265	16,460	46,926	1,040	16,460	47,966	64,426	10,195	54,231	56,053	—	2013	
Avalon Alderwood I	Lynnwood, WA	367	12,294	55,627	14	12,294	55,641	67,935	8,595	59,340	61,367	—	2015	
AVA Capitol Hill	Seattle, WA	249	20,613	60,005	685	20,613	60,690	81,303	6,513	74,790	76,433	—	2016	
Avalon Alderwood II	Redmond, WA	124	5,072	21,363	13	5,072	21,376	26,448	1,859	24,589	25,337	—	2016	
Archstone Redmond Lakeview	Redmond, WA	166	10,250	26,842	3,769	10,250	30,611	40,861	8,333	32,528	33,555	—	1987/2013	
<b>TOTAL PACIFIC NORTHWEST</b>		<b>3,256</b>	<b>\$ 121,685</b>	<b>\$ 570,625</b>	<b>\$ 35,342</b>	<b>\$ 121,685</b>	<b>\$ 605,967</b>	<b>\$ 727,652</b>	<b>\$ 203,721</b>	<b>\$ 523,931</b>	<b>\$ 543,691</b>	<b>\$ —</b>		

F-46

**NORTHERN CALIFORNIA**

<b>San Jose, CA</b>													
Avalon Campbell	Campbell, CA	348	\$ 11,830	\$ 47,828	\$ 13,895	\$ 11,830	\$ 61,723	\$ 73,553	\$ 37,549	\$ 36,004	\$ 37,851	\$ 38,800	1995
Eaves San Jose	San Jose, CA	440	12,920	53,047	19,019	12,920	72,066	84,986	38,598	46,388	48,753	—	1985/1996
Avalon Sillicon Valley (1)	Sunnyvale, CA	710	20,713	99,573	35,004	20,713	134,577	155,290	76,386	78,904	83,672	—	1998
Avalon Mountain View	Mountain View, CA	248	9,755	39,393	10,543	9,755	49,936	59,691	32,132	27,559	29,011	—	1986
Eaves Creekside	Mountain View, CA	296	6,546	26,263	21,325	6,546	47,588	54,134	27,454	26,680	28,327	—	1962/1997
Avalon at Cahill Park	San Jose, CA	218	4,765	47,600	2,335	4,765	49,935	54,700	27,889	26,811	28,301	—	2002
Avalon Morrison Park	San Jose, CA	250	13,837	64,534	152	13,837	64,686	78,523	11,143	67,380	69,664	—	2014
Avalon Willow Glen	San Jose, CA	412	46,060	81,957	5,002	46,060	86,959	133,019	23,357	109,662	112,837	—	2002/2013
Eaves West Valley	San Jose, CA	873	90,890	132,040	11,344	90,890	143,384	234,274	36,797	197,477	202,028	—	1970/2013
Eaves Mountain View at Middlefield	Mountain View, CA	402	64,070	69,018	5,922	64,070	74,940	139,010	20,711	118,299	120,748	—	1969/2013
<b>Total San Jose, CA</b>		<b>4,197</b>	<b>\$ 281,386</b>	<b>\$ 661,253</b>	<b>\$ 124,541</b>	<b>\$ 281,386</b>	<b>\$ 785,794</b>	<b>\$ 1,067,180</b>	<b>\$ 332,016</b>	<b>\$ 755,164</b>	<b>\$ 761,192</b>	<b>\$ 38,800</b>	

**AVALONBAY COMMUNITIES, INC.**  
**REAL ESTATE AND ACCUMULATED DEPRECIATION (Continued)**  
**December 31, 2018**  
**(Dollars in thousands)**

Community	City and state	# of homes	2018				2017				2018			
			Initial Cost		Total Cost		Initial Cost		Total Cost		Initial Cost		Total Cost	
			Land and improvements	Building/Construction in Progress & Improvements	Costs Subsequent to Acquisition/Construction	Land and improvements	Building/Construction in Progress & Improvements	Accumulated Depreciation	Total	Accumulated Depreciation	Total	Accumulated Depreciation	Total	Accumulated Depreciation
<b>Oakland - East Bay, CA</b>														
Avalon Fremont	Fremont, CA	308	\$ 10,746	\$ 43,399	\$ 7,458	\$ 10,746	\$ 50,857	\$ 61,603	\$ 35,349	\$ 26,254	\$ 27,278	\$ —	1992/1994	
Eaves Dublin	Dublin, CA	204	5,276	19,642	12,373	5,276	32,015	37,291	18,960	18,331	19,470	—	1989/1997	
Eaves Pleasanton	Pleasanton, CA	456	11,610	46,552	22,038	11,610	68,590	80,200	42,327	37,873	39,771	—	1988/1994	
Eaves Union City	Union City, CA	208	4,249	16,820	3,603	4,249	20,423	24,672	14,433	10,239	10,722	—	1973/1996	
Avalon Union City	Union City, CA	439	14,732	104,024	1,866	14,732	105,890	120,622	34,257	86,365	89,091	—	2009	
Avalon Walnut Creek (2)	Walnut Creek, CA	422	—	148,468	4,255	—	152,723	152,723	44,298	108,425	112,601	—	2010	
Avalon Dublin Station	Dublin, CA	253	7,772	72,142	450	7,772	72,592	80,364	12,253	68,111	70,863	—	2014	
Avalon Dublin Station II	Dublin, CA	252	7,762	76,587	(206)	7,762	76,381	84,143	7,497	76,646	79,551	—	2016	
Eaves Walnut Creek (1)	Walnut Creek, CA	510	30,320	82,375	17,008	30,320	99,383	129,703	23,049	106,654	110,229	—	1987/2013	
Avalon Walnut Ridge I	Walnut Creek, CA	106	9,860	19,850	5,307	9,860	25,157	35,017	5,781	29,236	30,176	—	2000/2013	
Avalon Berkeley	Berkeley, CA	94	4,500	28,615	51	4,500	28,666	33,166	4,543	28,623	29,599	—	2014	
<b>Total Oakland - East Bay, CA</b>		<b>3,252</b>	<b>\$ 106,827</b>	<b>\$ 658,474</b>	<b>\$ 74,203</b>	<b>\$ 106,827</b>	<b>\$ 732,677</b>	<b>\$ 839,504</b>	<b>\$ 242,747</b>	<b>\$ 596,757</b>	<b>\$ 619,351</b>	<b>\$ 3,699</b>		

F-47

**San Francisco, CA**

Eaves Daly City	Daly City, CA	195	\$ 4,230	\$ 9,659	\$ 20,613	\$ 4,230	\$ 30,272	\$ 34,502	\$ 18,784	\$ 15,718	\$ 16,043	\$ —	1972/1997
AVA Nob Hill	San Francisco, CA	185	5,403	21,567	7,904	5,403	29,471	34,874	18,180	16,694	17,464	20,800	1990/1995
Eaves San Rafael	San Rafael, CA	254	5,982	16,885	25,261	5,982	42,146	48,128	23,656	24,472	25,395	—	1973/1996
Eaves Foster City	Foster City, CA	288	7,852	31,445	12,532	7,852	43,977	51,829	27,209	24,620	25,304	—	1973/1994
Eaves Pacifica	Pacifica, CA	220	6,125	24,796	3,721	6,125	28,517	34,642	19,697	14,945	15,390	17,600	1971/1995
Avalon Sunset Towers	San Francisco, CA	243	3,561	21,321	16,264	3,561	37,585	41,146	21,165	19,981	21,194	—	1961/1996
Eaves Diamond Heights	San Francisco, CA	154	4,726	19,130	6,445	4,726	25,575	30,301	16,244	14,057	14,655	—	1972/1994
Avalon at Mission Bay I	San Francisco, CA	250	14,029	78,452	6,484	14,029	84,936	98,965	44,762	54,203	54,325	—	2003
Avalon at Mission Bay III	San Francisco, CA	260	28,687	119,156	603	28,687	119,759	148,446	38,977	109,469	113,287	—	2009
Avalon Ocean Avenue	San Francisco, CA	173	5,544	50,906	1,972	5,544	52,878	58,422	12,527	45,895	47,746	—	2012
AVA 55 Ninth	San Francisco, CA	273	20,267	97,321	1,285	20,267	98,606	118,873	16,867	102,006	105,711	—	2014
Avalon Hayes Valley	San Francisco, CA	182	12,595	81,228	—	12,595	81,228	93,823	10,793	83,030	85,972	—	2015
Avalon San Bruno I	San Bruno, CA	300	40,780	68,684	5,946	40,780	74,630	115,410	18,038	97,372	99,104	64,450	2004/2013
Avalon San Bruno II	San Bruno, CA	185	23,787	44,934	1,972	23,787	46,906	70,693	10,782	59,911	61,422	28,999	2007/2013
Avalon San Bruno III	San Bruno, CA	187	33,303	62,910	3,117	33,303	66,027	99,330	15,217	84,113	86,285	52,090	2010/2013
<b>Total San Francisco, CA</b>		<b>3,349</b>	<b>\$ 216,871</b>	<b>\$ 748,394</b>	<b>\$ 114,119</b>	<b>\$ 216,871</b>	<b>\$ 862,513</b>	<b>\$ 1,079,384</b>	<b>\$ 312,898</b>	<b>\$ 766,486</b>	<b>\$ 789,297</b>	<b>\$ 183,939</b>	

**TOTAL NORTHERN CALIFORNIA**

<b>10,798</b>	<b>\$ 605,084</b>	<b>\$ 2,068,121</b>	<b>\$ 312,863</b>	<b>\$ 2,380,984</b>	<b>\$ 605,084</b>	<b>\$ 2,986,068</b>	<b>\$ 887,661</b>	<b>\$ 2,169,840</b>	<b>\$ 226,438</b>
---------------	-------------------	---------------------	-------------------	---------------------	-------------------	---------------------	-------------------	---------------------	-------------------

**REAL ESTATE AND ACCUMULATED DEPRECIATION (Continued)**  
December 31, 2018  
(Dollars in thousands)

Community	City and state	# of homes	2017				2018						
			Initial Cost		Total Cost		Initial Cost		Total Cost				
			Land and improvements	Building/Construction in Progress & Improvements	Costs Subsequent to Acquisition/Construction	Building/Construction in Progress & Improvements	Land and improvements	Building/Construction in Progress & Improvements	Costs Subsequent to Acquisition/Construction	Building/Construction in Progress & Improvements			
<b>SOUTHERN CALIFORNIA</b>													
<b>Los Angeles, CA</b>													
AVA Burbank	Burbank, CA	748	\$ 22,483	\$ 28,104	\$ 49,269	\$ 22,483	\$ 77,373	\$ 99,856	\$ 43,470	\$ 56,386	\$ 58,391	\$ —	1961/1997
Avalon Woodland Hills	Woodland Hills, CA	663	23,828	40,372	49,923	23,828	90,295	114,123	48,604	65,519	68,144	—	1989/1997
Eaves Warner Center	Woodland Hills, CA	227	7,045	12,986	10,275	7,045	23,261	30,306	16,667	13,639	13,785	—	1979/1998
Avalon Glendale (2)	Glendale, CA	223	—	42,564	2,244	—	44,808	44,808	23,395	21,413	22,931	—	2003
Avalon Burbank	Burbank, CA	400	14,053	56,827	25,101	14,053	81,928	95,981	40,332	55,649	58,046	—	1988/2002
Avalon Camarillo	Camarillo, CA	249	8,446	40,290	1,232	8,446	41,522	49,968	17,877	32,091	33,255	—	2006
Avalon Wilshire	Los Angeles, CA	123	5,459	41,182	1,467	5,459	42,649	48,108	17,219	30,889	32,285	—	2007
Avalon Encino	Encino, CA	131	12,789	49,073	1,309	12,789	50,382	63,171	17,728	45,443	46,987	—	2008
Avalon Warner Place	Canoga Park, CA	210	7,920	44,845	892	7,920	45,737	53,657	16,667	36,990	38,245	—	2008
AVA Little Tokyo	Los Angeles, CA	280	14,734	94,076	1,594	14,734	95,670	110,404	14,164	96,240	98,607	—	2015
Eaves Phillips Ranch	Pomona, CA	501	9,796	41,740	2,950	9,796	44,690	54,486	12,077	42,409	43,186	—	1989/2011
Eaves San Dimas	San Dimas, CA	102	1,916	7,819	1,458	1,916	9,277	11,193	2,621	8,572	8,922	—	1978/2011
Eaves San Dimas Canyon	San Dimas, CA	156	2,953	12,428	812	2,953	13,240	16,193	3,683	12,510	12,972	—	1981/2011
AVA Pasadena	Pasadena, CA	84	8,400	11,547	5,552	8,400	17,099	25,499	3,849	21,650	22,255	—	1973/2012
Eaves Cerritos	Artesia, CA	151	8,305	21,195	1,526	8,305	22,721	31,026	5,203	25,823	26,583	—	1973/2012
Avalon Playa Vista (1)	Los Angeles, CA	309	30,900	72,008	3,102	30,900	75,110	106,010	17,059	88,951	91,108	—	2006/2012
Avalon San Dimas	San Dimas, CA	156	9,141	30,727	—	9,141	30,727	39,868	4,894	34,974	36,090	—	2014
Avalon Glendora	Glendora, CA	280	18,311	64,759	242	18,311	65,001	83,312	7,380	75,932	78,196	—	2016
Avalon Mission Oaks	Camarillo, CA	160	9,600	37,602	1,296	9,600	38,898	48,498	7,097	41,401	42,849	—	2014
Avalon Simi Valley	Simi Valley, CA	500	42,020	73,361	5,228	42,020	78,589	120,609	20,230	100,379	102,927	—	2007/2013
Avalon Calabasas (1)	Calabasas, CA	600	42,720	107,642	11,255	42,720	118,897	161,617	33,023	128,594	132,313	—	1988/2013
Avalon Oak Creek	Agoura Hills, CA	336	43,540	79,974	6,295	43,540	86,269	129,809	25,105	104,704	108,080	—	2004/2013
Avalon Santa Monica on Main	Santa Monica, CA	133	32,000	60,770	13,278	32,000	74,048	106,048	16,408	89,640	92,185	—	2007/2013
Avalon Del Mar Station	Pasadena, CA	347	20,560	106,556	4,105	20,560	110,661	131,221	24,486	106,735	110,130	—	2006/2013
Eaves Thousand Oaks	Thousand Oaks, CA	154	13,950	20,211	2,772	13,950	22,983	36,933	7,194	29,739	30,549	—	1992/2013
Eaves Woodland Hills	Woodland Hills, CA	883	68,940	90,549	11,831	68,940	102,380	171,320	29,786	141,534	145,339	111,500	1971/2013
Avalon Thousand Oaks Plaza	Thousand Oaks, CA	148	12,810	22,581	2,524	12,810	25,105	37,915	7,184	30,731	31,559	—	2002/2013
Avalon Pasadena	Pasadena, CA	120	10,240	31,558	6,698	10,240	38,256	48,496	8,646	39,850	41,204	—	2004/2013
<b>Total Los Angeles, CA</b>		<b>8,374</b>	<b>\$ 502,859</b>	<b>\$ 1,343,346</b>	<b>\$ 224,230</b>	<b>\$ 502,859</b>	<b>\$ 1,567,576</b>	<b>\$ 2,070,435</b>	<b>\$ 492,048</b>	<b>\$ 1,578,387</b>	<b>\$ 1,627,123</b>	<b>\$ 111,500</b>	

**REAL ESTATE AND ACCUMULATED DEPRECIATION (Continued)**  
December 31, 2018  
(Dollars in thousands)

Community	City and state	# of homes	2017				2018						
			Initial Cost		Total Cost		Initial Cost		Total Cost				
			Land and improvements	Building/Construction in Progress & Improvements	Costs Subsequent to Acquisition/Construction	Building/Construction in Progress & Improvements	Land and improvements	Building/Construction in Progress & Improvements	Costs Subsequent to Acquisition/Construction	Building/Construction in Progress & Improvements			
<b>Orange County, CA</b>													
AVA Newport	Costa Mesa, CA	145	\$ 1,975	\$ 3,814	\$ 9,904	\$ 1,975	\$ 13,718	\$ 15,693	\$ 7,499	\$ 8,194	\$ 8,634	\$ —	1956/1996
Eaves Mission Viejo	Mission Viejo, CA	166	2,517	9,257	3,654	2,517	12,911	15,428	9,178	6,250	6,694	7,635	1984/1996
Eaves South Coast	Costa Mesa, CA	258	4,709	16,063	13,646	4,709	29,709	34,418	17,892	16,526	17,331	—	1973/1996
Eaves Santa Margarita	Rancho Santa Margarita, CA	301	4,607	16,911	11,237	4,607	28,148	32,755	16,900	15,855	16,586	—	1990/1997
Eaves Huntington Beach (1)	Huntington Beach, CA	304	4,871	19,745	11,058	4,871	30,803	35,674	21,048	14,626	14,971	—	1971/1997
Avalon Irvine I	Irvine, CA	279	9,911	67,520	1,522	9,911	69,042	78,953	21,983	56,970	58,578	—	2010
Avalon Irvine II	Irvine, CA	179	4,358	40,905	59	4,358	40,964	45,322	8,711	36,611	38,053	—	2013
Eaves Lake Forest	Lake Forest, CA	225	5,199	21,134	3,571	5,199	24,705	29,904	6,502	23,402	23,967	—	1975/2011
Avalon Baker Ranch	Lake Forest, CA	430	31,689	98,410	27	31,689	98,437	130,126	13,019	117,107	120,694	—	2015
Avalon Irvine III	Irvine, CA	156	11,607	43,973	20	11,607	43,993	55,600	4,445	51,155	52,742	—	2016
<b>Total Orange County, CA</b>		<b>2,443</b>	<b>\$ 81,443</b>	<b>\$ 337,732</b>	<b>\$ 54,698</b>	<b>\$ 81,443</b>	<b>\$ 392,430</b>	<b>\$ 473,873</b>	<b>\$ 127,177</b>	<b>\$ 346,696</b>	<b>\$ 358,250</b>	<b>\$ 7,635</b>	
<b>San Diego, CA</b>													
AVA Pacific Beach	San Diego, CA	564	\$ 9,922	\$ 40,580	\$ 40,991	\$ 9,922	\$ 81,571	\$ 91,493	\$ 44,039	\$ 47,454	\$ 50,243	\$ —	1969/1997
Eaves Mission Ridge	San Diego, CA	200	2,710	10,924	12,460	2,710	23,384	26,094	15,529	10,565	11,125	—	1960/1997
AVA Cortez Hill (2)	San Diego, CA	299	2,768	20,134	23,989	2,768	44,123	46,891	25,017	21,874	23,010	—	1973/1998
Eaves San Marcos	San Marcos, CA	184	3,277	13,385	4,548	3,277	17,933	21,210	4,298	16,912	17,578	—	1988/2011
Eaves Rancho Penasquitos	San Diego, CA	250	6,692	27,143	4,420	6,692	31,563	38,255	8,230	30,025	30,117	—	1986/2011
Avalon Vista	Vista, CA	221	12,689	43,328	94	12,689	43,422	56,111	5,762	50,349	51,891	—	2015
Eaves La Mesa (1)	La Mesa, CA	168	9,490	28,482	2,778	9,490	31,260	40,750	8,602	32,148	32,745	—	1989/2013
Avalon La Jolla Colony	San Diego, CA	180	16,760	27,694	12,050	16,760	39,744	56,504	9,645	46,859	48,538	—	1987/2013
<b>Total San Diego, CA</b>		<b>2,066</b>	<b>\$ 64,308</b>	<b>\$ 211,670</b>	<b>\$ 101,330</b>	<b>\$ 64,308</b>	<b>\$ 313,000</b>	<b>\$ 377,308</b>	<b>\$ 121,122</b>	<b>\$ 256,186</b>	<b>\$ 265,247</b>	<b>\$ —</b>	
<b>TOTAL SOUTHERN CALIFORNIA</b>		<b>12,883</b>	<b>\$ 648,610</b>	<b>\$ 1,892,748</b>	<b>\$ 380,258</b>	<b>\$ 648,610</b>	<b>\$ 2,273,006</b>	<b>\$ 2,921,616</b>	<b>\$ 740,347</b>	<b>\$ 2,181,269</b>	<b>\$ 2,250,620</b>	<b>\$ 119,135</b>	
<b>TOTAL ESTABLISHED COMMUNITIES</b>		<b>54,901</b>	<b>\$ 2,901,133</b>	<b>\$ 9,844,369</b>	<b>\$ 1,216,440</b>	<b>\$ 2,901,133</b>	<b>\$ 11,060,809</b>	<b>\$ 13,961,942</b>	<b>\$ 3,592,058</b>	<b>\$ 10,369,884</b>	<b>\$ 10,701,297</b>	<b>\$ 951,194</b>	





**AVALONBAY COMMUNITIES, INC.**  
**REAL ESTATE AND ACCUMULATED DEPRECIATION (Continued)**  
**December 31, 2018**  
**(Dollars in thousands)**

Community	City and state	# of homes	2018			2017			2018				
			Initial Cost			Total Cost			Total Cost, Net of Accumulated Depreciation				
			Land and improvements	Building/Construction in Progress & Improvements	Costs Subsequent to Acquisition/Construction	Land and improvements	Building/Construction in Progress & Improvements	Total	Accumulated Depreciation	Total Cost, Net of Accumulated Depreciation	Encumbrances	Year of Completion/Acquisition	
<b>REDEVELOPMENT</b>													
Avalon Studio City	Studio City, CA	276	\$ 15,756	\$ 78,178	\$ 11,884	\$ 15,756	\$ 90,062	\$ 105,818	\$ 20,132	\$ 85,686	\$ 82,573	\$ —	2002/2013
Eaves Seal Beach	Seal Beach, CA	549	46,790	99,999	20,009	46,790	120,008	166,798	26,730	140,068	129,515	—	1971/2013
AVA Van Ness	Washington, D.C.	269	22,890	58,691	17,623	22,890	76,314	99,204	16,108	83,096	77,168	—	1978/2013
Avalon Prudential Center II	Boston, MA	266	8,776	35,496	59,168	8,776	94,664	103,440	35,845	67,595	64,388	—	1968/1998
Avalon Prudential Center I	Boston, MA	243	8,002	32,370	47,717	8,002	80,087	88,089	31,427	56,662	49,809	—	1968/1998
Avalon Court	Melville, NY	494	9,228	50,063	14,475	9,228	64,538	73,766	37,666	36,100	30,881	—	1997
Eaves Fairfax Towers	Falls Church, VA	415	17,889	74,727	8,473	17,889	83,200	101,089	21,368	79,721	78,629	—	1978/2011
Avalon Ballston Square	Arlington, VA	714	71,640	215,937	25,959	71,640	241,896	313,536	55,469	258,067	256,699	—	1992/2013
Eaves Redmond Campus	Redmond, WA	422	22,580	88,001	21,638	22,580	109,639	132,219	25,077	107,142	99,751	—	1991/2013
<b>TOTAL REDEVELOPMENT</b>		<b>3,648</b>	<b>\$ 223,551</b>	<b>\$ 733,462</b>	<b>\$ 226,946</b>	<b>\$ 223,551</b>	<b>\$ 960,408</b>	<b>\$ 1,183,959</b>	<b>\$ 269,822</b>	<b>\$ 914,137</b>	<b>\$ 869,413</b>	<b>\$ —</b>	
<b>TOTAL CURRENT COMMUNITIES (3)</b>		<b>74,890</b>	<b>\$ 4,068,035</b>	<b>\$ 14,395,399</b>	<b>\$ 1,889,559</b>	<b>\$ 4,068,035</b>	<b>\$ 16,284,958</b>	<b>\$ 20,352,993</b>	<b>\$ 4,556,052</b>	<b>\$ 15,796,941</b>	<b>\$ 15,707,425</b>	<b>\$ 1,152,565</b>	

<b>DEVELOPMENT</b>													
Community	City and state	# of homes	Land and improvements	Building/Construction in Progress & Improvements	Costs Subsequent to Acquisition/Construction	Land and improvements	Building/Construction in Progress & Improvements	Total	Accumulated Depreciation	Total Cost, Net of Accumulated Depreciation	Encumbrances	Year of Completion/Acquisition	
Avalon Public Market	Emeryville, CA	289	\$ —	\$ 3,995	\$ 110,229	\$ —	\$ 114,224	\$ 114,224	\$ 90	\$ 114,134	\$ 55,872	\$ —	N/A
AVA Hollyood	Hollyood, CA	695	—	1,157	220,298	—	221,455	221,455	—	221,455	169,007	—	N/A
Avalon Walnut Creek II (2)	Walnut Creek, CA	200	—	88	32,168	—	32,256	32,256	—	32,256	8,812	—	N/A
Avalon Doral	Doral, FL	350	—	—	35,154	—	35,154	35,154	—	35,154	N/A	—	N/A
Avalon at the Hingham Shipyard II	Hingham, MA	190	6,166	37,960	15,309	6,166	53,269	59,435	291	59,144	23,792	—	N/A
Avalon Sudbury	Sudbury, MA	250	12,525	44,666	22,053	12,525	66,719	79,244	602	78,642	33,595	—	N/A
Avalon Saugus	Saugus, MA	280	—	59	52,630	—	52,689	52,689	—	52,689	N/A	—	N/A
Avalon Norwood	Norwood, MA	198	—	—	21,641	—	21,641	21,641	59	21,582	N/A	—	N/A
Twinbrook Station	Rockville, MD	238	—	—	15,844	—	15,844	15,844	—	15,844	14,072	—	N/A
Avalon Towson	Towson, MD	371	—	16	42,670	—	42,686	42,686	—	42,686	3,985	—	N/A
Avalon Harbor East	Baltimore, MD	400	—	63	28,038	—	28,101	28,101	—	28,101	N/A	—	N/A
Avalon Boonton	Boonton, NJ	350	—	1,254	71,648	—	72,902	72,902	—	72,902	29,954	—	N/A
Avalon Teaneck	Teaneck, NJ	248	—	189	43,319	—	43,508	43,508	—	43,508	18,609	—	N/A
Avalon Piscataway	Piscataway, NJ	360	1,402	34,406	40,326	1,402	74,732	76,134	386	75,748	28,303	—	N/A
Avalon Old Bridge	Old Bridge, NJ	252	—	—	11,573	—	11,573	11,573	—	11,573	N/A	—	N/A
Avalon Yonkers	Yonkers, NY	590	—	303	88,903	—	89,206	89,206	—	89,206	23,300	—	N/A

**AVALONBAY COMMUNITIES, INC.**  
**REAL ESTATE AND ACCUMULATED DEPRECIATION (Continued)**  
**December 31, 2018**  
**(Dollars in thousands)**

Community	City and state	# of homes	2018			2017			2018				
			Initial Cost			Total Cost			Total Cost, Net of Accumulated Depreciation				
			Land and improvements	Building/Construction in Progress & Improvements	Costs Subsequent to Acquisition/Construction	Land and improvements	Building/Construction in Progress & Improvements	Total	Accumulated Depreciation	Total Cost, Net of Accumulated Depreciation	Encumbrances	Year of Completion/Acquisition	
Avalon Harrison	Harrison, NY	143	\$ —	\$ —	\$ 5,504	\$ —	\$ 5,504	\$ 5,504	\$ —	\$ 5,504	N/A	\$ —	N/A
Avalon Belltown Towers	Seattle, WA	273	—	1,536	115,897	—	117,433	117,433	—	117,433	50,636	—	N/A
AVA Estera Park	Redmond, WA	323	—	1,220	74,532	—	75,752	75,752	—	75,752	37,048	—	N/A
Avalon Newcastle Commons II	Newcastle, WA	293	—	—	22,384	—	22,384	22,384	—	22,384	N/A	—	N/A
Avalon North Creek	Bothell, WA	316	—	151	37,907	—	38,058	38,058	—	38,058	15,432	—	N/A
15 West 61st Street (4)	New York, NY	N/A	—	2,519	543,988	—	546,507	546,507	—	546,507	440,712	—	N/A
<b>TOTAL DEVELOPMENT</b>		<b>6,609</b>	<b>\$ 20,093</b>	<b>\$ 129,582</b>	<b>\$ 1,652,015</b>	<b>\$ 20,093</b>	<b>\$ 1,781,597</b>	<b>\$ 1,801,690</b>	<b>\$ 1,428</b>	<b>\$ 1,800,262</b>	<b>\$ 953,129</b>	<b>\$ —</b>	
Land Held for Development		N/A	\$ 84,712	\$ —	\$ —	\$ 84,712	\$ —	\$ 84,712	\$ —	\$ 84,712	\$ 68,364	\$ —	
Corporate Overhead		N/A	10,879	11,414	80,888	10,879	92,302	103,181	54,166	49,015	43,073	5,950,000	
2018 Disposed Communities		N/A	—	—	—	—	—	—	—	—	945,566	—	
<b>TOTAL</b>		<b>81,499</b>	<b>\$ 4,183,719</b>	<b>\$ 14,536,395</b>	<b>\$ 3,622,462</b>	<b>\$ 4,183,719</b>	<b>\$ 18,158,857</b>	<b>\$ 22,342,576</b>	<b>\$ 4,611,646</b>	<b>\$ 17,730,930</b>	<b>\$ 17,717,557</b>	<b>\$ 7,102,355</b>	

- This community was under redevelopment for some or all of 2018, with the redevelopment effort primarily focused on the exterior and/or common area, or with the redevelopment effort focused on apartment homes that do not meet the definition of a Redevelopment Community. These redevelopment activities have no expected material impact on community operations, and therefore this community is included in the Established Community portfolio and not classified as a Redevelopment Community.
- Some or all of the land for this community is subject to a land lease.
- Current Communities excludes Unconsolidated Communities.
- 15 West 61st Street is expected to contain 172 residential units and 67,000 square feet of retail space. The Company is pursuing a potential for-sale strategy of individual condominium units for the residential portion, while the Company would maintain ownership of the retail portion. The number of homes that the Company expects the new building to contain upon completion are not included in the apartment home count presented in this Form 10-K.

**AVALONBAY COMMUNITIES, INC.**  
**REAL ESTATE AND ACCUMULATED DEPRECIATION (Continued)**  
**December 31, 2018**  
**(Dollars in thousands)**

Amounts include real estate assets held for sale.

Depreciation of AvalonBay Communities, Inc. building, improvements, upgrades and furniture, fixtures and equipment (FF&E) is calculated over the following useful lives, on a straight line basis:

Building—30 years

Improvements, upgrades and FF&E—not to exceed 7 years

The aggregate cost of total real estate for federal income tax purposes was approximately \$21,480,345 at December 31, 2018.

The changes in total real estate assets for the years ended December 31, 2018, 2017 and 2016 are as follows:

	For the year ended		
	12/31/2018	12/31/2017	12/31/2016
Balance, beginning of period	\$ 21,935,936	\$ 20,776,626	\$ 19,268,099
Acquisitions, construction costs and improvements	1,568,878	1,526,516	1,788,515
Dispositions, including casualty losses and impairment loss on planned dispositions	(1,162,238)	(367,206)	(279,988)
Balance, end of period	<u>\$ 22,342,576</u>	<u>\$ 21,935,936</u>	<u>\$ 20,776,626</u>

The changes in accumulated depreciation for the years ended December 31, 2018, 2017 and 2016, are as follows:

	For the year ended		
	12/31/2018	12/31/2017	12/31/2016
Balance, beginning of period	\$ 4,218,379	\$ 3,743,632	\$ 3,325,790
Depreciation, including discontinued operations	631,196	584,150	531,434
Dispositions, including casualty losses	(237,929)	(109,403)	(113,592)
Balance, end of period	<u>\$ 4,611,646</u>	<u>\$ 4,218,379</u>	<u>\$ 3,743,632</u>

**Board of Directors**

**Timothy J. Naughton**

Chairman of the Board,  
Chief Executive Officer & President,  
AvalonBay Communities, Inc.  
Investment and Finance Committee

**Glyn F. Aeppel**

Chief Executive Officer & President,  
Glencove Capital  
*A hotel investment and advisory company*  
Investment & Finance (Chair); Nominating  
& Corporate Governance Committees

**Terry S. Brown**

Chairman of the Board &  
Chief Executive Officer,  
Asana Partners  
*A real estate investment company*  
Investment & Finance;  
Nominating & Corporate Governance  
Committees

**Alan B. Buckelew**

Private Investor  
Audit (Chair); Compensation Committees

**Ronald L. Havner, Jr.**

Chairman of the Board,  
Public Storage, Inc.  
*A real estate investment trust*  
Audit; Investment & Finance Committees

**Stephen P. Hills**

Founding Director,  
Business Law Scholars Program, Georgetown Law  
Audit; Investment & Finance Committees

**Richard J. Lieb**

Managing Director, Chairman of Real Estate  
Greenhill & Co., LLC  
*An investment bank*  
Audit; Compensation Committees

**Peter S. Rummell**

Private Investor  
Investment & Finance; Nominating & Corporate  
Governance Committees

**H. Jay Sarles**

Private Investor  
Compensation; Nominating & Corporate Governance  
(Chair) Committees

**Susan Swanezy**

Partner,  
Hodes Weill & Associates, LP  
*A global advisory firm*  
Audit; Investment & Finance Committees

**W. Edward Walter**

Global Chief Executive Officer,  
Urban Land Institute  
*Nonprofit research and education organization*  
Lead Director;  
Compensation (Chair); Nominating & Corporate  
Governance Committees

## Executive and Senior Officers

**Timothy J. Naughton**  
Chairman of the Board,  
Chief Executive Officer & President

**Kevin P. O'Shea**  
Chief Financial Officer

**Matthew H. Birenbaum**  
Chief Investment Officer

**Sean J. Breslin**  
Chief Operating Officer

**Michael M. Feigin**  
Chief Construction Officer

**Leo. S. Horey III**  
Chief Administrative Officer

**William M. McLaughlin**  
Executive Vice President  
Development – East Coast

**Edward M. Schulman**  
Executive Vice President  
General Counsel & Secretary

**Stephen W. Wilson**  
Executive Vice President  
Development – West Coast

**Keri A. Shea**  
Senior Vice President  
Finance & Treasurer (Principal Accounting Officer)

## Investor information

**Corporate Office**  
AvalonBay Communities, Inc.  
671 North Glebe Road, Suite 800  
Arlington, VA 22203  
Phone: 703.329.6300

**Website**  
www.avalonbay.com

**Investor Relations Contact**  
Jason Reilley  
AvalonBay Communities, Inc.  
671 North Glebe Road, Suite 800  
Arlington, VA 22203  
Phone: 703.329.6300  
Email: ir@avalonbay.com

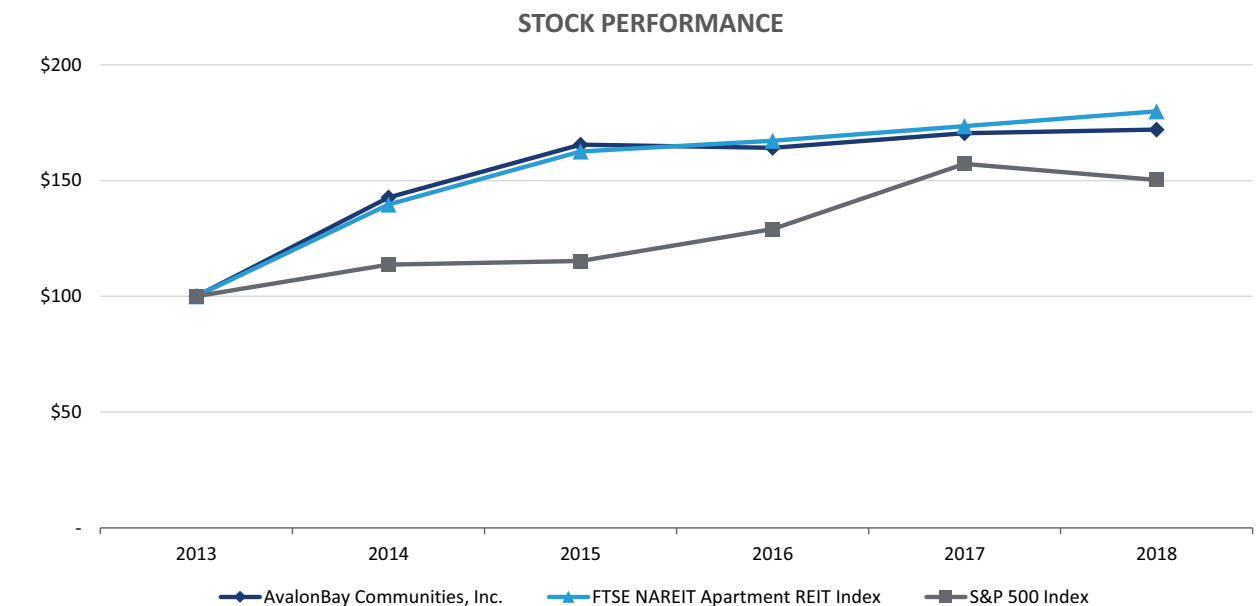
**Transfer Agent**  
Computershare Shareowner Services  
Regular Mail  
P.O. Box 505000  
Louisville, KY 40233  
Overnight Delivery  
462 South 4th Street, Suite 1600  
Louisville, KY 40202  
Phone: 866.230.0668  
www.computershare.com

**Common Stock Listing**  
Ticker: AVB  
New York Stock Exchange

**Forward-Looking Statements**  
This Annual Report contains “forward-looking statements” within the meaning of the Securities Act of 1933 and the Securities Exchange Act of 1934. Please see our discussion titled “Forward-Looking Statements” on page 54 of our accompanying Annual Report on Form 10-K for a discussion regarding risks associated with these statements.

## Stock performance graph

The Stock Performance Graph provides a comparison, from December 31, 2013 through December 31, 2018, of the cumulative total shareholder return (assuming reinvestment of dividends) among the Company, a peer group index (the FTSE NAREIT Apartment REIT Index) that includes the Company, and the S&P 500 based on an initial purchase price of \$100. The FTSE NAREIT Apartment REIT Index includes only REITs that invest directly or indirectly primarily in the equity ownership of multifamily residential apartment communities. Upon written request to the Company's Secretary, the Company will provide any stockholder with a list of REITs included in the FTSE NAREIT Apartment REIT Index. The historical information set forth below is not necessarily indicative of future performance. Data for the FTSE NAREIT Apartment REIT Index and the S&P 500 Index were provided to the Company by S&P Global Market Intelligence.



Index	Period Ending					
	12/31/13	12/31/14	12/31/15	12/31/16	12/31/17	12/31/18
AvalonBay Communities, Inc.	\$ 100	143	166	164	170	172
FTSE NAREIT Apartment REIT Index	100	140	163	167	173	180
S&P 500 Index	100	114	115	129	157	150

(This page has been left blank intentionally.)

