

Digital Realty Trust, Inc.
 Form 424B7
 June 15, 2010
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Filed Pursuant to Rule 424(b)(7)
 Registration No. 333-158958

PROSPECTUS SUPPLEMENT

CALCULATION OF REGISTRATION FEE

Title Of Securities Being Registered	Number of Shares to be Registered⁽¹⁾	Proposed Maximum Offering Price Per Share⁽²⁾	Proposed Maximum Aggregate Offering Price⁽³⁾	Amount Of Registration Fee
Common Stock, par value \$.01 per share	1,160,950	\$61.655	\$71,578,372.25	\$5,103.54 ⁽⁴⁾

- (1) Including an indeterminate number of shares which may be issued by Digital Realty Trust, Inc. with respect to such shares of common stock by way of a stock dividend, stock split or in connection with a stock combination, recapitalization, merger, consolidation or otherwise.
- (2) Based upon the average of the high and low prices of our common stock reported on the New York Stock Exchange on June 11, 2010, pursuant to Rule 457(c) of the Securities Act of 1933, as amended (the Securities Act).
- (3) Estimated solely for the purpose of calculating the registration fee pursuant to Rule 457 of the Securities Act.
- (4) A filing fee of \$5,103.54 is calculated in accordance with Rules 457(c) and 457(r) of the Securities Act. In accordance with Rules 456(b) and 457(r) of the Securities Act, the registrant initially deferred payment of all of the registration fee for Registration Statement No. 333-158958 filed by the registrant on May 1, 2009.

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PROSPECTUS SUPPLEMENT

(To prospectus dated May 1, 2009)

1,160,950 Shares

Common Stock

This prospectus supplement relates to the possible resale from time to time of up to 1,160,950 shares of our common stock by the selling securityholder named in this prospectus supplement. We are registering these shares of our common stock to provide the selling securityholder with freely tradable securities. The registration of the shares of our common stock covered by this prospectus supplement does not necessarily mean that any of these shares of our common stock will be sold by the selling securityholder.

We will receive no proceeds from any sale of the shares of our common stock covered by this prospectus supplement and the accompanying prospectus by the selling securityholder, but we have agreed to pay certain registration expenses.

Our common stock is listed on the New York Stock Exchange under the symbol **DLR**. The last reported sale price of our common stock on the New York Stock Exchange on June 11, 2010 was \$62.56 per share.

Investing in our common stock involves risks. See **Risk Factors** beginning on page S-1 of this prospectus supplement and page 2 of the accompanying prospectus.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or determined if this prospectus supplement or the accompanying prospectus is truthful or complete. Any representation to the contrary is a criminal offense.

The date of this prospectus supplement is June 14, 2010.

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You should rely only on the information contained in or incorporated by reference in this prospectus supplement and the accompanying prospectus. We have not authorized anyone to provide you with different information. We are not making an offer of these securities in any state where the offer is not permitted. You should not assume that the information contained in this prospectus supplement or the accompanying prospectus is accurate as of any date other than the respective dates of the prospectus supplement and the accompanying prospectus, as applicable.

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ABOUT THIS PROSPECTUS SUPPLEMENT

This document is in two parts. The first part is this prospectus supplement, which describes the specific terms of this offering. The second part, the accompanying prospectus, gives more general information, some of which may not apply to this offering.

If the description of the offering varies between this prospectus supplement and the accompanying prospectus, you should rely on the information in this prospectus supplement.

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RISK FACTORS

In addition to other information contained in this prospectus supplement and the accompanying prospectus, you should carefully consider the risks discussed below and the risks incorporated by reference to our Annual Report on Form 10-K for the year ended December 31, 2009, as updated by our subsequent filings under the Securities Exchange Act of 1934, as amended (the Exchange Act), in evaluating our company, our properties and our business before making a decision to invest in our common stock. These risks are not the only ones faced by us. Additional risks not presently known or that are currently deemed immaterial could also materially and adversely affect our financial condition, results of operations, business and prospects. The trading price of our common stock could decline due to any of these risks, and you may lose all or part of your investment. This prospectus supplement and the accompanying prospectus, and the documents incorporated herein and therein by reference also contain forward-looking statements that involve risks and uncertainties. Actual results could differ materially from those anticipated in these forward-looking statements as a result of certain factors, including the risks faced by us described below and elsewhere in this prospectus supplement and the accompanying prospectus, and the documents incorporated herein and therein by reference. Please refer to the section entitled Forward-Looking Statements in this prospectus supplement.

Risks Related to Ownership of Our Common Stock

Market interest rates and other factors may affect the value of our common stock.

One of the factors that will influence the price of our common stock will be the dividend yield on our common stock relative to market interest rates. Increases in market interest rates could cause the market price of our common stock to go down. The trading price of the shares of our common stock will also depend on many other factors, which may change from time to time, including:

the market for similar securities;

the attractiveness of real estate investment trust (REIT) securities in comparison to the securities of other companies, taking into account, among other things, the higher tax rates imposed on dividends paid by REITs;

government action or regulation;

general economic conditions or conditions in the financial or real estate markets; and

our financial condition, performance and prospects.

Our revolving credit facility may limit our ability to pay distributions to our common stockholders.

Our revolving credit facility prohibits us from distributing to our stockholders more than 95% of our funds from operations (as defined in our revolving credit facility) during any four consecutive fiscal quarters, except as necessary to enable us to qualify as a REIT for federal income tax purposes. Consequently, if we do not generate sufficient funds from operations (as defined in our revolving credit facility) during the twelve months preceding any dividend payment date for our common stock or preferred stock, we will not be able to pay all or a portion of the accumulated dividends payable to our stockholders on that payment date without causing a default under our revolving credit facility. In the event of a default under our revolving credit facility, we would be unable to borrow under our revolving credit facility and any amounts we have borrowed thereunder could become due and payable.

The number of shares available for future sale could adversely affect the market price of our common stock.

We cannot predict whether future issuances of shares of our common stock or the availability of shares for resale in the open market will decrease the market price per share of our common stock. Sales of a substantial number of shares of our common stock in the public market, or upon exchange of units, or the perception that such sales might occur could materially adversely affect the market price of the shares of our common stock.

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The exchange of units for common stock, the exercise of any options granted to directors, executive officers and other employees under our incentive award plan, the issuance of our common stock or units in connection with property, portfolio or business acquisitions and other issuances of our common stock could have an adverse effect on the market price of the shares of our common stock, and the existence of units, options and shares of our common stock reserved for issuance as restricted shares of our common stock or upon exchange of units may materially adversely affect the terms upon which we may be able to obtain

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additional capital through the sale of equity securities. In addition, future issuances of shares of our common stock may be dilutive to existing stockholders.

The market price and trading volume of our common stock may be volatile.

The market price of our common stock may be volatile. In addition, the trading volume in our common stock may fluctuate and cause significant price variations to occur. If the market price of our common stock declines significantly, you may be unable to resell your shares at or above the public offering price. We cannot assure you that the market price of our common stock will not fluctuate or decline significantly in the future.

Some of the factors that could negatively affect our share price or result in fluctuations in the price or trading volume of our common stock include:

actual or anticipated variations in our quarterly operating results or dividends;

changes in our funds from operations or earnings estimates;

publication of research reports about us, the real estate industry or the technology industry;

increases in market interest rates that lead purchasers of our shares to demand a higher yield;

changes in market valuations of similar companies;

adverse market reaction to any additional debt we incur in the future;

additions or departures of key management personnel;

actions by institutional stockholders;

speculation in the press or investment community;

the realization of any of the other risk factors presented or incorporated by reference in this prospectus supplement;

any determination in the future to pay a dividend partially in shares of our own stock; and

general market and economic conditions.

Future offerings of debt, which would be senior to our common stock upon liquidation, and/or preferred equity securities which may be senior to our common stock for purposes of dividend distributions or upon liquidation, may adversely affect the market price of our common stock.

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In the future, we may increase our capital resources by making additional offerings of debt or preferred equity securities, including medium-term notes, trust preferred securities, senior or subordinated notes and preferred stock. Upon liquidation, holders of our debt securities and shares of preferred stock and lenders with respect to other borrowings will receive distributions of our available assets prior to the holders of our common stock. Additional equity offerings may dilute the holdings of our existing stockholders or reduce the market price of our common stock, or both. Holders of our common stock are not entitled to preemptive rights or other protections against dilution. Our series A preferred stock, series B preferred stock, series C convertible preferred stock and series D convertible preferred stock have a preference on liquidating distributions and a preference on dividend payments that could limit our ability to pay a dividend or make another distribution to the holders of our common stock. Because our decision to issue securities in any future offering will depend on market conditions and other factors beyond our control, we cannot predict or estimate the amount, timing or nature of our future offerings. Thus, our stockholders bear the risk of our future offerings reducing the market price of our common stock and diluting their stock holdings in us.

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

We may in the future elect to distribute taxable dividends that are partially payable in cash and partially payable in our stock. Under recent IRS guidance, up to 90% of any such taxable dividend for 2008 through 2011 could be payable in our stock. Taxable stockholders receiving such dividends will be required to include the full amount of the dividend as ordinary income to the extent of our current and accumulated earnings and profits for United States 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 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. For more information on the tax consequences of distributions with respect to our common stock, see Supplemental United States Federal Income Tax Considerations. 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, if a significant number of our stockholders determine to sell shares of our stock in order to pay taxes owed on dividends, it may put downward pressure on the trading price of our stock.

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FORWARD-LOOKING STATEMENTS

We make statements in this prospectus supplement and the accompanying prospectus, and the documents incorporated by reference, that are forward-looking statements within the meaning of the federal securities laws. In particular, statements pertaining to our capital resources, portfolio performance and results of operations contain forward-looking statements. Likewise, all of our statements regarding anticipated market conditions, demographics and results of operations are forward-looking statements. You can identify forward-looking statements by the use of forward-looking terminology such as believes, expects, may, will, should, seeks, approximately, intends, plans, pro forma, anticipates or the negative of these words and phrases or similar words or phrases which are predictions of or indicate future events or trends and which do not relate solely to historical matters. You can also identify forward-looking statements by discussions of strategy, plans or intentions. Forward-looking statements involve numerous risks and uncertainties and you should not rely on them as predictions of future events. Forward-looking statements depend on assumptions, data or methods which may be incorrect or imprecise and we may not be able to realize them. We do not guarantee that the transactions and events described will happen as described (or that they will happen at all).

The following factors, among others, could cause actual results and future events to differ materially from those set forth or contemplated in the forward-looking statements:

the impact of the recent deterioration in global economic, credit and market conditions;

current local economic conditions in our geographic markets;

decreases in information technology spending, including as a result of economic slowdowns or recession;

adverse economic or real estate developments in our industry or the industry sectors that we sell to (including risks relating to decreasing real estate valuations and impairment charges);

our dependence upon significant tenants;

bankruptcy or insolvency of a major tenant or a significant number of smaller tenants;

defaults on or non-renewal of leases by tenants;

our failure to obtain necessary debt and equity financing;

increased interest rates and operating costs;

our failure to repay debt when due or our breach of covenants or other terms contained in our loan facilities and agreements;

financial market fluctuations;

changes in foreign currency exchange rates;

our ability to manage our growth effectively;

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difficulty acquiring or operating properties in foreign jurisdictions;

our failure to successfully operate acquired or redeveloped properties;

risks related to joint venture investments, including as a result of our lack of control of such investments;

delays or unexpected costs in development or redevelopment of properties;

decreased rental rates or increased vacancy rates;

increased competition or available supply of data center space;

our inability to successfully develop and lease new properties and space held for redevelopment;

difficulties in identifying properties to acquire and completing acquisitions;

our inability to acquire off-market properties;

our inability to comply with the rules and regulations applicable to public companies;

our failure to maintain our status as a REIT;

potential adverse changes to tax laws;

restrictions on our ability to engage in certain business activities;

environmental uncertainties and risks related to natural disasters;

changes in foreign laws and regulations, including those related to taxation and real estate ownership and operation; and

changes in real estate and zoning laws and increases in real property tax rates.

While forward-looking statements reflect our good faith beliefs, they are not guaranties of future performance. We disclaim any obligation to publicly update or revise any forward-looking statement to reflect changes in underlying assumptions or factors, new information, data or methods, future events or other changes. For a further discussion of these and other factors that could impact our future results, performance or transactions, see the section entitled "Risk Factors" in this prospectus supplement and in our Annual Report on Form 10-K for the year ended December 31, 2009 and our Quarterly Report on Form 10-Q for the quarter ended March 31, 2010.

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USE OF PROCEEDS

We are filing this prospectus supplement pursuant to our contractual obligation to the holder of our common stock named in the section entitled Selling Securityholder. We will not receive any of the proceeds from the sale of shares of our common stock from time to time by such holder. However, we will pay estimated expenses of approximately \$75,000.

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SELLING SECURITYHOLDER

The selling securityholder received these shares of our common stock registered pursuant to this prospectus supplement in exchange for 2026 debentures held by the selling securityholder. Since the selling securityholder may sell all, some or none of its shares, we cannot estimate the aggregate number of shares that the selling securityholder will offer pursuant to this prospectus supplement and the accompanying prospectus or that the selling securityholder will own upon completion of the offering to which this prospectus supplement and the accompanying prospectus relates.

The selling securityholder named below may from time to time offer the shares of our common stock offered by this prospectus supplement and the accompanying prospectus:

Name ⁽¹⁾	Common Shares Owned Prior to the Sale ⁽²⁾		Maximum Number of Common Shares to be Sold	Common Shares Owned after Sale ⁽³⁾	
	Shares	Percent		Shares	Percent
Hudson Bay Fund LP ⁽⁴⁾	1,160,950	1.35%	1,160,950		

- (1) Information in this table is based on information made available to us by the selling securityholder as of the date of this prospectus supplement.
- (2) The percentage ownership is based on 85,858,588 shares of our common stock outstanding as of June 8, 2010.
- (3) The percentage ownership is based on 85,858,588 shares of our common stock outstanding as of June 8, 2010 and assumes the selling securityholder sells all of its shares of our common stock offered pursuant to this prospectus supplement.
- (4) Hudson Bay Capital Management, L.P., the investment manager of Hudson Bay Fund LP, has voting and investment power over these securities. Sander Gerber is the managing member of Hudson Bay Capital GP LLC, which is the general partner of Hudson Bay Capital Management, L.P. Sander Gerber disclaims beneficial ownership over these securities.

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SUPPLEMENTAL UNITED STATES FEDERAL INCOME TAX CONSIDERATIONS

This discussion is a supplement to, and is intended to be read together with, the discussion in the accompanying prospectus under the heading United States Federal Income Tax Considerations. This summary of material federal income tax considerations is for general information only and is not tax advice.

The following discussion should be inserted after the fifth paragraph under the heading Taxation of Our Company Annual Distribution Requirements.

Certain Dividends Paid in Stock

Recent guidance issued by the IRS extends and clarifies the application of the safe harbor set forth in Revenue Procedure 2009-15, described in the accompanying prospectus under the heading Taxation of Our Company Annual Distribution Requirements and Taxation of Taxable U.S. Stockholders Distributions Generally. This IRS guidance provides that certain part-stock and part-cash dividends distributed by publicly-traded REITs for calendar years 2008 through 2011 will satisfy the REIT distribution requirements. Under the terms of this guidance, up to 90% of our distributions could be paid in shares of our common stock. If we make such a distribution, taxable stockholders would be required to include the full amount of the dividend (*i.e.*, the cash and the stock portions) as ordinary income (subject to limited exceptions), to the extent of our current and accumulated earnings and profits for United States federal income tax purposes, as described in the accompanying prospectus under the headings Taxation of Taxable U.S. Stockholders Distributions Generally and Taxation of Non-U.S. Stockholders Distributions Generally. As a result, our stockholders generally would recognize taxable income in excess of the cash received and may be required to pay tax with respect to such dividends in excess of the cash received. If a taxable stockholder sells the stock it receives as a dividend, the sales proceeds may be less than the amount included in income with respect to the dividend, depending on the market price of the stock at the time of the sale. Furthermore, with respect to non-U.S. stockholders (as defined in the accompanying prospectus), 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.

The following discussion should be inserted immediately following the discussion under the heading Federal Income Tax Considerations for Holders of Our Capital Stock.

New Legislation Relating to Foreign Accounts

Newly enacted legislation may impose withholding taxes on certain types of payments made to foreign financial institutions and certain other non-U.S. entities. Under this legislation, the failure to comply with additional certification, information reporting and other specified requirements could result in withholding tax being imposed on payments of dividends and sales proceeds to U.S. stockholders (as defined in the accompanying prospectus) who own the shares through foreign accounts or foreign intermediaries and certain non-U.S. stockholders (as defined in the accompanying prospectus). The legislation imposes a 30% withholding tax on dividends on, and gross proceeds from the sale or other disposition of, our common stock paid to a foreign financial institution or to a foreign non-financial entity, 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, it must enter into an agreement with the United States Treasury requiring, among other things, that it undertake 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 it from complying with these reporting and other requirements. The legislation applies to payments made after December 31, 2012. Prospective investors should consult their tax advisors regarding this legislation.

The following discussion should be inserted immediately following the discussion under the heading Federal Income Tax Considerations for Holders of Our Capital Stock Taxation of Taxable U.S. Stockholders Tax Rates.

On March 30, 2010, President Obama signed into law the Health Care and Education Reconciliation Act of 2010, which requires U.S. stockholders who meet certain requirements and are individuals, estates or certain trusts to pay an additional 3.8% tax on, among other things, dividends on and capital gains from the sale or other disposition of stock for taxable years beginning after December 31, 2012. U.S. stockholders should consult their tax advisors regarding the effect, if any, of this legislation on their ownership and disposition of our common stock.

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PLAN OF DISTRIBUTION

This prospectus supplement relates to the offer and sale from time to time of some or all of 1,160,950 shares of our common stock by the selling securityholder.

We are registering the shares of our common stock to provide the holder with freely tradable securities, but the registration of these shares does not necessarily mean that any of these shares will be offered or sold by the holder.

We will not receive any proceeds from the issuance of the shares of our common stock to the selling securityholder or from the sale of such shares by the selling securityholder, but we have agreed to pay the following expenses of the registration of such shares:

all registration and filing fees;

printing expenses;

internal expenses (including, without limitation, all salaries and expenses of our officers and employees performing legal or accounting duties);

the fees and expenses incurred in connection with listing our common stock on each securities exchange on which our similar securities issued are then listed;

reasonable fees and disbursements of our counsel and customary fees and expenses for independent certified public accountants retained by us; and

the reasonable fees and expenses of any special experts retained by us in connection with the registration of such shares.

We have no obligation to pay any underwriting fees, discounts or commissions attributable to the resale of the common stock by the selling securityholder. We also have no obligation to pay any transfer taxes relating to the registration or sale of our common stock contemplated hereby.

The selling securityholder may, from time to time, sell any or all of the shares of our common stock directly or through one or more underwriters, broker-dealers or agents. The selling securityholder will be responsible for any underwriting discounts or commissions or agents' commissions. The common stock may be sold in one or more transactions at fixed prices, at prevailing market prices at the time of sale, at varying prices determined at the time of sale, or at negotiated prices. The selling securityholder may use any one or more of the following methods when selling shares (which may involve crosses or block transactions):

on any national securities exchange or quotation service on which the common stock may be listed or quoted at the time of sale;

in the over-the-counter market;

in transactions otherwise than on such exchanges or services or in the over-the-counter market; or

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through the writing of options.

The selling securityholder may pledge or grant a security interest in some or all of the shares of common stock covered by this prospectus supplement and the accompanying prospectus owned by the selling securityholder and, if the selling securityholder defaults in the performance of its secured obligations, the pledgees or secured parties may offer and sell the shares of common stock from time to time pursuant to this prospectus supplement and the accompanying prospectus. The selling securityholder may also transfer and donate shares of common stock covered by this prospectus supplement and the accompanying prospectus in other circumstances in which case the transferees, donees, pledgees or other successors in interest will be the selling securityholder for purposes of this prospectus supplement and the accompanying prospectus.

Persons participating in the distribution of the shares of our common stock offered by this prospectus supplement may engage in transactions that stabilize the price of our common stock. The anti-manipulation rules of Regulation M under the Exchange Act, may apply to sales of our common stock in the market and to the activities of the selling securityholder.

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PROSPECTUS

Digital Realty Trust, Inc.

Common Stock, Preferred Stock, Depositary Shares and Warrants

We may from time to time offer, in one or more series or classes, separately or together, and in amounts, at prices and on terms to be set forth in one or more supplements to this prospectus, the following securities:

shares of our common stock, par value \$0.01 per share;

shares of our preferred stock, par value \$0.01 per share;

depositary shares representing entitlement to all rights and preferences of fractions of shares of preferred stock of a specified series and represented by depositary receipts; or

warrants to purchase shares of our common stock or preferred stock or depositary shares.

This prospectus also covers delayed delivery contracts that may be issued by the registrant under which the counterparty may be required to purchase common stock, preferred stock, depositary shares or warrants to purchase common stock or preferred stock. Delayed delivery contracts may be issued together with the specific securities to which they relate. In addition, securities registered hereunder may be sold separately, together or as units with other securities registered hereunder.

We refer to the common stock, preferred stock, depositary shares and warrants registered hereunder collectively as the securities in this prospectus. We will offer our securities in amounts, at prices and on terms determined at the time of the offering of any such security.

The specific terms of each series or class of the securities will be set forth in the applicable prospectus supplement and will include, as applicable: (i) in the case of our common stock, any public offering price; (ii) in the case of our preferred stock, the specific title and any dividend, liquidation, redemption, conversion, voting and other rights and any public offering price; (iii) in the case of depositary shares, the fractional share of preferred stock represented by each such depositary share; and (iv) in the case of warrants, the duration, offering price, exercise price and detachability. In addition, because we are organized and conduct our operations so as to qualify as a real estate investment trust, or REIT, for federal income tax purposes, the specific terms of any securities may include limitations on actual or constructive ownership and restrictions on transfer of the securities, in each case as may be appropriate to preserve the status of our company as a REIT.

The applicable prospectus supplement will also contain information, where applicable, about certain United States federal income tax consequences relating to, and any listing on a securities exchange of, the securities covered by such prospectus supplement.

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The securities may be offered directly by us, through agents designated from time to time by us or to or through underwriters or dealers. These securities also may be resold by securityholders, if so provided in a prospectus supplement hereto. We will provide specific information about any selling securityholders in one or more supplements to this prospectus. If any agents, dealers or underwriters are involved in the sale of any of the securities, their names, and any applicable purchase price, fee, commission or discount arrangement between or among them will be set forth, or will be calculable from the information set forth, in the applicable prospectus supplement. See the sections entitled "Plan of Distribution" and "About this Prospectus" for more information. No securities may be sold without delivery of this prospectus and the applicable prospectus supplement describing the method and terms of the offering of such series of securities.

Our common stock currently trades on the New York Stock Exchange, or NYSE, under the symbol "DLR".

See **Risk Factors** beginning on page 2 for certain risk factors relevant to an investment in our securities.

Neither the United States Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or determined if this prospectus is truthful or complete. Any representation to the contrary is a criminal offense.

The date of this prospectus is May 1, 2009.

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You should rely only on the information contained in this prospectus, in an accompanying prospectus supplement or incorporated by reference herein or therein. We have not authorized anyone to provide you with information or make any representation that is different. If anyone provides you with different or inconsistent information, you should not rely on it. This prospectus and any accompanying prospectus supplement do not constitute an offer to sell or a solicitation of an offer to buy any securities other than the registered securities to which they relate, and this prospectus and any accompanying prospectus supplement do not constitute an offer to sell or the solicitation of an offer to buy securities in any jurisdiction where, or to any person to whom, it is unlawful to make such an offer or solicitation. You should not assume that the information contained in this prospectus and any accompanying prospectus supplement is correct on any date after the respective dates of the prospectus and such prospectus supplement or supplements, as applicable, even though this prospectus and such prospectus supplement or supplements are delivered or shares are sold pursuant to the prospectus and such prospectus supplement or supplements at a later date. Since the respective dates of the prospectus contained in this registration statement and any accompanying prospectus supplement, our business, financial condition, results of operations and prospects may have changed. We may only use this prospectus to sell the securities if it is accompanied by a prospectus supplement.

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OUR COMPANY

We own, acquire, develop, redevelop and manage technology-related real estate. Our properties are diversified in major markets where corporate datacenter and technology tenants are concentrated, including the Chicago, Dallas, Los Angeles, New York, Northern Virginia, Phoenix, San Francisco and Silicon Valley metropolitan areas in the U.S. and the London, Dublin, Paris and Amsterdam markets in Europe. Our portfolio consists of Internet gateway and corporate datacenter properties, technology manufacturing properties and regional or national headquarters of technology companies. We operate as a real estate investment trust, or REIT, for U.S. federal income tax purposes.

Our principal executive offices are located at 560 Mission Street, Suite 2900, San Francisco, California 94105. Our telephone number is (415) 738-6500. Our website is located at www.digitalrealtytrust.com. The information found on, or accessible through, our website is not incorporated into, and does not form a part of, this prospectus or any other report or document we file with or furnish to the United States Securities and Exchange Commission, or the SEC.

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RISK FACTORS

Investment in any securities offered pursuant to this prospectus involves risks. You should carefully consider the risk factors incorporated by reference to our most recent Annual Report on Form 10-K and subsequent Quarterly Reports on Form 10-Q and the other information contained or incorporated by reference in this prospectus, as updated by our subsequent filings under the Securities Exchange Act of 1934, as amended, or the Exchange Act, and the risk factors and other information contained in the applicable prospectus supplement before acquiring any of such securities.

ABOUT THIS PROSPECTUS

This prospectus is part of a registration statement that we filed with the United States Securities and Exchange Commission, or SEC, using a shelf registration process. Under this process, we may sell common stock, preferred stock, depositary shares and warrants in one or more offerings. This prospectus provides you with a general description of the securities we may offer. Each time we sell securities, we will provide a prospectus supplement containing specific information about the terms of the applicable offering. Such prospectus supplement may add, update or change information contained in this prospectus. To the extent that this prospectus is used by any securityholder to resell any securities, information with respect to the securityholder and the terms of the securities being offered will be contained in a prospectus supplement. You should read this prospectus and the applicable prospectus supplement together with additional information described under the heading **Where You Can Find More Information**.

We or any selling securityholders may offer the securities directly, through agents, or to or through underwriters. The applicable prospectus supplement will describe the terms of the plan of distribution and set forth the names of any underwriters involved in the sale of the securities. See **Plan of Distribution** for more information on this topic. No securities may be sold without delivery of a prospectus supplement describing the method and terms of the offering of those securities.

Unless otherwise indicated or unless the context requires otherwise, all references in this prospectus to **we**, **us**, **our** or **our company** refer to Digital Realty Trust, Inc. together with our consolidated subsidiaries, including Digital Realty Trust, L.P., a Maryland limited partnership of which we are the sole general partner and which we refer to in this prospectus as our operating partnership.

WHERE YOU CAN FIND MORE INFORMATION

We file annual, quarterly and special reports, proxy statements and other information with the SEC. You may read and copy any document we file with the SEC at the SEC's public reference room at 100 F Street, N.E. Room 1580, Washington, D.C. 20549. Please call the SEC at 1-800-SEC-0330 for further information about the public reference room. The SEC also maintains a web site that contains reports, proxy and information statements and other information regarding registrants that file electronically with the SEC at <http://www.sec.gov>. You can inspect reports and other information we file at the offices of the NYSE, 20 Broad Street, New York, New York 10005. In addition, we maintain a website that contains information about us at <http://www.digitalrealtytrust.com>. The information found on, or otherwise accessible through, our website is not incorporated into, and does not form a part of, this prospectus or any other report or document we file with or furnish to the SEC.

We have filed with the SEC a registration statement on Form S-3, of which this prospectus is a part, including exhibits, schedules and amendments filed with, or incorporated by reference in, this registration statement, under the Securities Act of 1933, as amended, or the

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Securities Act, with respect to the securities registered hereby. This prospectus and any accompanying prospectus supplement do not contain all of the information set forth in the registration statement and exhibits and schedules to the registration statement. For further information with respect to our company and the securities registered hereby, reference is made to the registration statement, including the exhibits to the registration statement. Statements contained in this prospectus and any accompanying prospectus supplement as to the contents of any contract or other document referred to in, or incorporated by reference in, this prospectus and any accompanying prospectus supplement are not necessarily complete and, where that contract is an exhibit to the registration statement, each statement is qualified in all respects by the exhibit to which the reference relates. Copies of the registration statement, including the exhibits and schedules to the registration statement, may be examined at the SEC's public reference room. Copies of all or a portion of the registration statement can be obtained from the public reference room of the SEC upon payment of prescribed fees. This registration statement is also available to you on the SEC's website.

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INCORPORATION OF CERTAIN DOCUMENTS BY REFERENCE

The SEC allows us to incorporate by reference the information we file with the SEC, which means that we can disclose important information to you by referring to those documents. The information incorporated by reference is an important part of this prospectus. The incorporated documents contain significant information about us, our business and our finances. Any statement contained in a document which is incorporated by reference in this prospectus is automatically updated and superseded if information contained in this prospectus, or information that we later file with the SEC, modifies or replaces this information. We incorporate by reference the following documents we filed with the SEC:

our Annual Report on Form 10-K for the year ended December 31, 2008;

our Definitive Proxy Statement on Schedule 14A filed with the SEC on April 6, 2009 (solely to the extent specifically incorporated by reference into our Annual Report on Form 10-K for the year ended December 31, 2008);

our Current Report on Form 8-K filed with the SEC on February 13, 2009;

our Current Report on Form 8-K filed with the SEC on March 19, 2009;

our Current Report on Form 8-K filed with the SEC on April 13, 2009;

our Current Report on Form 8-K filed with the SEC on April 22, 2009;

the description of our Series B Cumulative Redeemable Preferred Stock, par value \$0.01 per share, contained in our Registration Statement on Form 8-A filed on July 20, 2005 (file number 001-32336), including any amendment or reports filed for the purpose of updating this description;

the description of our Series A Cumulative Redeemable Preferred Stock, par value \$0.01 per share, contained in our Registration Statement on Form 8-A filed on February 2, 2005 (file number 001-32336), including any amendment or reports filed for the purpose of updating this description;

the description of our common stock, par value \$0.01 per share, contained in our Registration Statement on Form 8-A filed on October 28, 2004 (file number 001-32336), including any amendment or reports filed for the purpose of updating this description; and

all documents filed by us with the SEC pursuant to Sections 13(a), 13(c), 14 or 15(d) of the Securities Exchange Act of 1934, as amended, after the date of this prospectus and prior to the termination of the offering of the underlying securities (excluding any portions of such documents that are deemed furnished to the SEC pursuant to applicable rules and regulations).

We will provide without charge to each person, including any beneficial owner, to whom a prospectus is delivered, on written or oral request of that person, a copy of any or all of the documents we are incorporating by reference into this prospectus, other than exhibits to those documents unless those exhibits are specifically incorporated by reference into those documents. A written request should be addressed to Joshua A. Mills, General Counsel and Assistant Secretary, Digital Realty Trust, Inc., 560 Mission Street, Suite 2900, San Francisco, California 94105.

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FORWARD-LOOKING STATEMENTS

This prospectus, including the documents that we incorporate by reference, contains forward-looking statements within the meaning of the safe harbor from civil l