

Digital Realty Trust, Inc.
Form 424B7
September 15, 2009

Filed Pursuant to Rule 424(b)(7)
Registration No. 333-142396

PROSPECTUS SUPPLEMENT NO. 22

(To Prospectus dated April 26, 2007)

6,245,466 Shares

Common Stock

This prospectus supplement no. 22 supplements the prospectus dated April 26, 2007 and supersedes, in its entirety, prospectus supplement no. 21, dated August 13, 2009, relating to the resale by selling securityholders of shares of our common stock that may be issuable upon exchange of the 4.125% Exchangeable Senior Debentures due 2026, of our Operating Partnership, Digital Realty Trust, L.P.

You should read this prospectus supplement no. 22 in conjunction with the prospectus. This prospectus supplement no. 22 is not complete without, and may not be delivered or used except in conjunction with, the prospectus, including any amendments or supplements to it. This prospectus supplement no. 22 is qualified by reference to the prospectus, except to the extent that the information provided by this prospectus supplement no. 22 supersedes information contained in the prospectus.

You should consider carefully the risk factors beginning on page 2 of the prospectus as well as the risk factors relating to our business that are incorporated by reference in the prospectus before investing in the shares of common stock that may be issuable upon exchange of the debentures.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or passed upon the accuracy or adequacy of the prospectus or this prospectus supplement no. 22. Any representation to the contrary is a criminal offense.

The date of this prospectus supplement no. 22 is September 14, 2009.

The section entitled "Selling Securityholders" in the prospectus is superseded in its entirety with the following:

SELLING SECURITYHOLDERS

The 4.125% Exchangeable Senior Debentures due 2026 were originally issued by Digital Realty Trust, L.P., our operating partnership, and sold by the initial purchasers of the debentures in transactions exempt from the registration requirements of the Securities Act to persons reasonably believed by the initial purchasers to be qualified institutional buyers as defined by Rule 144A under the Securities Act. Under certain circumstances, we may issue shares of our common stock upon the exchange of the debentures. In such circumstances, the recipients of shares of our common stock, whom we refer to as the selling securityholders, may use this prospectus and any accompanying prospectus supplement to resell from time to time the shares of our common stock that we may issue to them upon the exchange of the debentures. Information about selling securityholders is set forth in this prospectus, and information about additional selling securityholders may be set forth in a prospectus supplement, in a post-effective amendment, or in filings we make with the SEC under the Exchange Act that are incorporated by reference in this prospectus.

The following table sets forth information, as of September 14, 2009, with respect to the selling securityholders and the maximum number of shares of our common stock that could become beneficially owned by each selling securityholder should we issue shares of our common stock to such selling securityholder that may be offered pursuant to this prospectus upon the exchange of the debentures. The information is based on information provided by or on behalf of the selling securityholders. The selling securityholders may offer all, some or none of the shares of our common stock which we may issue upon the exchange of the debentures. The number of shares of our common stock issuable upon the exchange of the debentures shown in the table below assumes exchange of the full amount of debentures held by each selling securityholder at the maximum exchange rate of 36.2056 shares of our common stock per \$1,000 principal amount of debentures and a cash payment in lieu of any fractional share. The exchange rate of the debentures is currently 31.0370 shares of our common stock per \$1,000 principal amount of debentures. The exchange rate on the debentures is subject to adjustment in certain events. Accordingly, the number of shares of our common stock issuable upon the exchange of the debentures may increase or decrease from time to time. In addition, due to the exchange settlement provisions of the debentures, we may not be required to issue the maximum number of shares of our common stock upon any exchanges of debentures. The percent of shares of common stock beneficially owned following the exchange is based on 76,399,956 shares of common stock outstanding as of September 4, 2009.

Name (1)	Shares of Common Stock Beneficially Owned Prior to the Exchange	Maximum Number of Shares of Common Stock Issuable Upon Exchange of Outstanding Debentures (2)	Shares of Common Stock Beneficially Owned Following the Exchange		Number of Shares of Common Stock Offered	Common Stock Beneficially Owned after Resale (4)	
			Shares	Percent (3)		Shares	Percent
1976 Distribution Trust FBO A.R. Lauder (5)		181	181	*	181	*	
2000 Revocable Trust FBO A.R. Lauder (5)		144	144	*	144	*	
AHFP Context (6)		24,438	24,438	*	24,438	*	
Alcon Laboratories (5)		16,690	16,690	*	16,690	*	
Altma Fund Sicav plc in respect of the Grafton Sub Fund (6)		114,952	114,952	*	114,952	*	
Amaranth LLC (7)	15,600	117,668	133,268	*	117,668		15,600 *
AQR Absolute Return Master Fund, L.P. (15)		8,146	8,146	*	8,146	*	
AQR DELTA Master Account, L.P. (15)		18,102	18,102	*	18,102	*	
AQR Diversified Arbitrage Fund (15)		3,620	3,620	*	3,620	*	

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Argent Classic Convertible Arbitrage Fund Ltd. (47)		57,928	57,928	*	57,928		*
Argent Classic Convertible Arbitrage Fund L.P. (47)		9,413	9,413	*	9,413		*
Argent Classic Convertible Arbitrage Fund II, L.P. (47)		2,534	2,534	*	2,534		*
Argentum Multi-Strategy Fund Ltd (47)		2,534	2,534	*	2,534		*
Argentum Multi-Strategy Fund L.P. (47)		724	724	*	724		*
Arkansas Teacher Retirement System (8)		133,598	133,598	*	133,598		*
Arlington County Employees Retirement System (5)		23,931	23,931	*	23,931		*
Baptist Health of South Florida (8)		41,274	41,274	*	41,274		*
Basso Fund Ltd. (9)		18,247	18,247	*	18,247		*
Basso Holdings Ltd. (9)		324,438	324,438	*	324,438		*
Basso Multi-Strategy Holding Fund Ltd. (9)		127,986	127,986	*	127,986		*
Bayerische Hypo und Vereinsbank AG (48)		452,570	452,570	*	452,570		*
Black Diamond Convertible Offshore LDC (10)		72,411	72,411	*	72,411		*
Black Diamond Offshore Ltd. (10)(54)	6,627	24,981	31,608	*	24,981	6,627	*
BMO Nesbitt Burns, Inc. (11)		128,529	128,529	*	128,529		*
British Virgin Islands Social Security Board (5)		5,539	5,539	*	5,539		*
Casam Context Offshore Advantage Fund Limited (6)		56,118	56,118	*	56,118		*
CB Richard Ellis Investors, LLC (12)		24,852	24,852	*	24,852		*
Cincinnati Insurance Company (13)		5,430	5,430	*	5,430		*
Citigroup Global Markets, Inc. (14)		36,205	36,205	*	36,205		*
City University of New York (5)		4,779	4,779	*	4,779		*
CNH CA Master Account, L.P. (15)(55)	88,372	31,933	120,305	*	31,933	88,372	*
CNH CA Master Fund, L.P. (15)		44,605	44,605	*	44,605		*
Continental Assurance Company on Behalf of Its Separate Account (E) (17)		94,134	94,134	*	94,134		*
Convertible Securities Fund (16)		724	724	*	724		*
Context Advantage Master Fund, L.P. (6)		383,779	383,779	*	383,779		*
CSS, LLC (44)		217,233	217,233	*	217,233		*
CQS Convertible and Quantitative Strategies Master Fund Ltd (18)		90,514	90,514	*	90,514		*
Daimler Chrysler Corp. Emp. #1 Pension Plan dated 4/1/89 (19)		45,655	45,655	*	45,655		*
D.E. Shaw Valence Portfolios, L.L.C. (20)		181,028	181,028	*	181,028		*
DBAG London (49)		570,093	570,093	*	570,093		*
DKR SoundShore Oasis Holding Fund Ltd. (50)	327,525	362,056	689,581	*	362,056	327,525	*
Double Black Diamond Offshore LDC (10)(56)	109,651	156,046	265,697	*	156,046	109,651	*
Elite Classic Convertible Arbitrage Ltd. (47)		5,792	5,792	*	5,792		*
Ellington Overseas Partners, LTD (21)		72,411	72,411	*	72,411		*

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Engineers Joint Pension Fund (8)		15,387	15,387	*	15,387		*
Finch Tactical Plus Class B (6)		17,197	17,197	*	17,197		*
FPL Group Employee Pension Plan (19)		17,595	17,595	*	17,595		*
Franklin and Marshall College (19)		1,086	1,086	*	1,086		*
Froley Revy Alternative Strategies (22)		18,102	18,102	*	18,102		*
Grable Foundation (5)		2,461	2,461	*	2,461		*
Grady Hospital (5)		3,005	3,005	*	3,005		*
Guardian Pension Trust (23)		18,102	18,102	*	18,102		*
Harry M. & Violet Turner Charitable Trust (24)		3,620	3,620	*	3,620		*
HBK Master Fund L.P. (25)		1,178,492	1,178,492	1.52%	1,178,492		*
HFR CA Global Select Master Trust Account (47)		5,068	5,068	*	5,068		*
Highbridge International LLC (26)(53)	441,860	536,748	978,608	1.26%	536,748	441,860	*
Hudson Bay Overseas Fund Ltd (51)		608,869	608,869	*	608,869		*
Independence Blue Cross (5)		16,401	16,401	*	16,401		*
Institutional Benchmarks Series (Master Feeder) Limited in Respect of Alcor Series (6)		17,197	17,197	*	17,197		*
Institutional Benchmarks Series (Master Feeder) Limited in Respect of the Grafton Sub Fund (6)		8,146	8,146	*	8,146		*
JMG Capital Partners, LP (27)		391,020	391,020	*	391,020		*
KBC Convertibles MAC28 Limited (28)		28,964	28,964	*	28,964		*
KBC Diversified Fund, a Segregated Portfolio of KBC Diversified Fund, SPC (28)		57,928	57,928	*	57,928		*
KBC Financial Products USA Inc. (29)(57)	8,720	615,495	624,215	*	615,495	8,720	*
LDG Limited (30)		12,092	12,092	*	12,092		*
Lehman Brothers (45)		217,233	217,233	*	217,233		*
Lyxor/Context Fund LTD (6)		52,498	52,498	*	52,498		*
Lyxor Quest Fund LTD (31)		108,616	108,616	*	108,616		*
McMahan Securities Co. L.P. (46)		18,102	18,102	*	18,102		*
Merrill Lynch, Pierce, Fenner and Smith (32)		155,684	155,684	*	155,684		*
Mohican VCA Master Fund, Ltd. (33)		99,565	99,565	*	99,565		*
Morgan Stanley Convertible Securities Trust (34)		12,671	12,671	*	12,671		*
New Orleans Firefighters (5)		2,787	2,787	*	2,787		*
Nicholas Applegate U.S. Convertible Fund (8)		139,029	139,029	*	139,029		*
NJF Dividend, Interest and Premium Strategy Fund (8)		253,439	253,439	*	253,439		*
Occidental Petroleum (5)		10,644	10,644	*	10,644		*
Opportunistic Convertible Arbitrage Fund Ltd. (15)		144,822	144,822	*	144,822		*
Oregon Convertible Opportunities Bond Fund, L.P. (15)(52)	57,953	6,335	64,288	*	6,335	57,953	*

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Police & Firefighters of the City of Detroit (5)		16,292	16,292	*	16,292		*
Polygon Global Opportunities Master Fund (35)		99,565	99,565	*	99,565		*
Promutual (5)		30,195	30,195	*	30,195		*
Quest Global Convertible Master Fund LTD (31)		36,205	36,205	*	36,205		*
Rampart Enhanced Convertible Investors, LLC (36)		8,073	8,073	*	8,073		*
RBC Capital Markets (37)		108,616	108,616	*	108,616		*
Rhythm Fund, Ltd. (28)		57,928	57,928	*	57,928		*
San Diego City Retirement (8)		53,765	53,765	*	53,765		*
San Diego County Convertible (8)		60,644	60,644	*	60,644		*
San Diego County Employee Retirement Association (8)		24,076					