Hongjie Dong* (hongjie_dong@brown.edu), 182 George Street, Providence, RI 02912, and Zongyuan Li. The oblique derivative problem in Lipschitz domains.

We prove the $W^2_p$ estimate for the oblique derivative problem of nondivergence form elliptic equations with VMO coefficients in Lipschitz domains with locally small Lipschitz constant. This improves an earlier result by G. Lieberman, where the domains are required to be in $C^{1,\alpha}$ for $\alpha > 1 - 1/p$. (Received February 06, 2018)