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A Turing degree \mathbf{d} is said to be low for isomorphism if, whenever it can compute an isomorphism between two computable structures, a computable isomorphism already exists between them; that is, if whenever $\mathcal{A} \cong_{\mathbf{d}} \mathcal{B}$, then $\mathcal{A} \cong_{\mathbf{0}} \mathcal{B}$. Franklin and Solomon proved that every 2-generic degree was low for isomorphism and conjectured that the degrees that were properly 1-generic were neither low for isomorphism nor degrees of categoricity. We provide a counterexample to this conjecture by constructing a real that is 1-generic and low for isomorphism but not computable from a 2-generic. (Received August 11, 2015)